

SEQUENCE LISTING

<110> Sun, Yongming
 Recipon, Herve
 Ghosh, Malavika
 Liu, Chenghua

<120> Compositions and Methods Relating to Colon Specific
 Genes and Proteins

<130> DEX-0253

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<150> 60/244,717

<151> 2000-10-31

<160> 250

<170> PatentIn Ver. 2.1

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 <212> DNA
 <213> Homo sapiens

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<213> Homo sapiens

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<223> a, c, g or t

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tccttacaat gattatgaag atcaaaagggc attagaatca agctataaag agccactgtt 720
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catcatctga ttagagcagt ggtcccccac tgggtgtctt tggaccatct gtataaaatg 900
ttcataggtc aaggataaaa tggaaaaaca gaaaaaatgt cacagaaatg tgccattgt 960
tgaagagcca ccagctgtcc tttttggagg atgtttcttt attctaaaaa tgtatatatt 1020
ctattctatt aaaacatttt tgtattggca ttttttctc ttttatgaaa tggccatggg 1080

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tagaaatttg taatgtatcc aattctcctg tcttcatgta ttgccctgtg gtgggggagg 1140
ggatgtggct agtactggcc aagaggettg gggcagaggt gcaatgttag acttctagcc 1200
tggagcattt aattcttagt acaagactct ctaacattct tctccctctg ttcctctgtt 1260
ggtgatactc gaggtattgc aacccccatt aaccttagtc ttaggggcaag ttgatgggga 1320
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ccaatcatgg tggaa 1455

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<210> 15
<211> 904
<212> DNA
<213> Homo sapiens

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<220>
<221> unsure
<222> (281)
<223> a, c, g or t

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<220>
<221> unsure
<222> (329)
<223> a, c, g or t

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<220>
<221> unsure
<222> (469)
<223> a, c, g or t

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<220>
<221> unsure
<222> (471)
<223> a, c, g or t

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<220>
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<222> (539) .. (540)
<223> a, c, g or t

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<220>
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<222> (662)
<223> a, c, g or t

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<220>
<221> unsure
<222> (692) .. (693)
<223> a, c, g or t

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<220>
 <221> unsure
 <222> (701)..(703)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (776)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (785)
 <223> a, c, g or t

<400> 15
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 agggaaaacag taatctctta atggaacttt ttagcaatta tgacaaaaag aatggaaaaa 180
 tgtttaaaca tatataaaag gctagacgtt tatcgccaaa tagtatctaa aggtcataga 240
 atagttagga attctgtcat tttgttttgt gtaataaata ncccttctct ttaccctttc 300
 accctaataa tagatatcca ccattttgnt gtgattatcc aactatagag tacctttttc 360
 aagaactcat tatataccaa agtaggagct tgcgtgacct gataatgctt tatttagttt 420
 tgtagtgaac tacaattacc atttgcttag gaaaaaaaat aaagaacana nacaagtaaa 480
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 tgccttgtgt gttaaagaca ttaaatagtc ataccctta gcctagtgtg tcttctatcc 600
 tgaaaaaaa ttaacaaagc aaactactaac ttaagaaaaa aaactacagc actgaaaaaga 660
 tntgtgttaa tattgtttat gctaacataa annatgtaaa nnnntatata ttgtttatcc 720
 tgactataa tttattacta tacatagtgt aaattatgat acattggctt tggtangcag 780
 tttntaacc gctaataata taaataccat actattaaca atctagaaaa atgattctgg 840
 tataggttat gtgaaaaggc aaaaaataaa attgtatata gtacactagc aatgaacagt 900
 ctga 904

<210> 16
 <211> 984
 <212> DNA
 <213> Homo sapiens

<400> 16
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 acttgtggtc attgagcttc ctgtgtaaag caccgacgct attctgtagt tgctcatcct 180
 gtattcaggg tgatctcaca cgtaggagtg agcatttgac agcttccatg tcttctagt 240
 cggctgagaa tttacatatt aagatacaca ttatttatta tcaattactt tctgttttca 300
 atgtccattt agagcactaa aaatatcttt gtaggtagtt gatattactt atgaatttta 360
 tttcaggaga gcaaaaggaa atacaagata gttgtatgaa aagggggcac cgggtgtgct 420

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agagtggctc accaccgccc tacacagtgg gctaattggc tggagagtag agctgactct 480
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accttgacag aattagcaaa gcggttgaga tgcatacttt ggagtcagac agactccagt 600
tcacatctct gctttttatac ttacagctgt ataaccgtag acaatctatc taccctctgg 660
ccgactccat tctctcaatt ataagatagg ataacttgtg aaatgcttcc cacaagatta 720
ctattgcatt tattctcctc accactctta atgaagagag tcttgtaaca gataactcta 780
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cttccagtg gaggccatttc attcatgctg ctctactctt tacttggact gctagcaaac 900
atggagctaa gtactctatg ttaatttctg tggcttttct caaatagggt ttcaatacta 960
tagtttgccc tcactccatt cctc                                     984

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<210> 17
<211> 429
<212> DNA
<213> Homo sapiens

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```

<400> 17
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gcctctgcta tcaactctct gatggagagt gtatgaatgc aaaagctcct ccttagcac 180
ttacctagtg cttcactctc tgggctcctg ccaactgggtc ccagctaaga gagtttgatt 240
ttaaatacca gagtttatgg ctttttaaaa ataactcttc acctatttat caaaagctcc 300
tctaaataaa tatttacaac aacaacaatg ataatggcta ctatctagta ttcccattt 360
tccagacact gtgctgggct ctttccaaac actgttttaa tctttacca caccagctcc 420
gcgctctta                                     429

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<210> 18
<211> 734
<212> DNA
<213> Homo sapiens

```

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<400> 18
cttttggacc ataagcctca ggaagctata aggattattt gcattcttac acctggggcac 60
tctctctttc tgcgtgaatc cagtttttca atcttttcta tttttgaaat aggttaagaaa 120
agaaaataat tttctagaat ttgaagaaaa atcttaaaac atttgaattt ctttgttatg 180
atgactaata taacgaatag cactcaggtt tatcaaatat taacattttt ccatatttgt 240
tatagaattt ttttccatat ttgctacaga aataatttct ttatatatat aatacatatt 300
tgaacactga ttttacttga tacattaata taatgctgat gtgctgagat gaataaatca 360
aagaacctct tggagctctt ggtgtgcaat aagcatagtt aacgaatata aaataagtga 420
tattttctag aaaataaata ctgggtctaca atgccttctc tgcatttcca aagtccttaa 480
aaagatctga aaatccaatg ccttttaaaa ataaaattac ggtaatctca tttggccaca 540
aaacctgttc agaattgatg tgaggctatt aagatattta tttctcttat ttattagtga 600
atattcatct ttcactacag aaatactaac gagtttgatt acaggggtct ttagacttcc 660
ctcaagggtg acatatttgc tacttttctc taaaatccca aacatcctgg attctgaaac 720
acatctaaac cccc                                     734

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<210> 19
 <211> 1184
 <212> DNA
 <213> Homo sapiens

<400> 19
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 tggagatcct tcttagtgca gacatcttat aattctatto tgtatcgtgt tcatttaagt 120
 agtctgcttt atcattacat taacatttat gaaagacttg ctggatcatc tggcttagcg 180
 attatttttc catctagatg ctttttttaa agaaatgaag agaatatgta atgttttaaa 240
 tgtacatttt agtttgattt aaattttaat caaggatttt tattttatatac attacatact 300
 gatcactggt ttatgttaac tctggctcta ataaacagaa aataacaatt tgggaatatct 360
 acaacaatga gagctcgagg taaaatatag cataaataag acatatatgt gtatgaactg 420
 agatatatag aaataattaa atgtaacaat cttttggacc ataagcctca ggaagctata 480
 aggattattt gcattcttac acctggggcac tcttctcttt tgctgaatac cagtttttca 540
 atcttttcta tttttgaaat aggttaagaaa agaaaaataat tttctagaat ttgaagaaaa 600
 atcttaaaac atttgaaatt ctttggttatg atgactaata taacgaatag cactcagggt 660
 tatcaaatat taacattttt ccatatttgt tatagaattt ttttccatat ttgctacaga 720
 aataattttc ttatatatat aatacatatt tgaacactga ttttacttga tacattaata 780
 taatgctgat gtgctgagat gaataaatca aagaacctct tggagctctt ggtgtgcaat 840
 aagcatagtt aacgaatata aaataagtga tattttctag aaaataaata ctggctctaca 900
 atgaccttatc tgtcatttca aagtctctaa aaagatctga aaatccaatg ccttttaaaa 960
 ataaaaattac ggtaattcca tttggccaca aaacctgttc agaattgatg tgaggctatt 1020
 aagatattta tttctcttat ttattagtga atattcatct ttcactacag aaatactaac 1080
 gaggttgatt acaggggtgct ttagacttcc ctcaagggtg acatatgtgc tacttttctc 1140
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<210> 20
 <211> 550
 <212> DNA
 <213> Homo sapiens

<400> 20
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 ctttaaggagc ctgcagcttt gctccaaagc acacactggc agaccttggc cagatgcctg 120
 gcacaggggc tggggaggga aaggctgccc aacccccgtt ttcctcttgc agatgagcat 180
 tctccaaatc catgtttacc cagtctctct taatgtctgc ttcctcaactg tcagcgggtg 240
 ctaaaaagca cacatttaga tgaattagaa catgccaggc tgcaggggcg ggtgtcatcc 300
 cagaactcac agagcagctt gagggtctcag cagctcagcc acatcttttg gtccccaccg 360
 catctcccc caggcatgga cctcccaat ttaccctgtg aaggctgcat ggagaagatg 420
 cagggtcttg gaacagccag catcaccaga ggtgccactt agtgagtacc cagtgaggctc 480
 ccaacaccgt gctgagctcc cagtgaggaga accggaaccg tctgctgtgt cctgtgtgta 540
 ttccagcatc 550

<210> 21

<211> 599
 <212> DNA
 <213> Homo sapiens

<400> 21
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 ccggcccccag tgccttgcat gcagcaagggt cttggcatgt gcaagcttcc tttagggagcc 120
 tgcagctttg ctccaaagca cacactggca gaccttggcc agatgctcgg cacaggggct 180
 ggggaggggaa aggctgcccc acccccgttt tccctttgca gatgagcatt ctccaaatcc 240
 atgttttacc agtcctcctt aatgctgcct tccaaactgt cagcgggtgc taaaaagcac 300
 acattaggat gaattagaac atgccagggt gcaagggcgg gtgtcatccc agaactcaca 360
 gagcacgttg agggctcagc cgctcagcca catctttagg tcccaccagc atctccccc 420
 aggcattggac ctccccaatt taccctgtga aggctgcctg gagaagatgc aggtccttagg 480
 aacagccagc atcaccagag gtgccactta gtgagtaccc agtgggctcc caacaccgtg 540
 ctgagctccc agtgggagaa ccggaaccgt ctgectgttc tctgttgtat tccagcacc 599

<210> 22
 <211> 618
 <212> DNA
 <213> Homo sapiens

<400> 22
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 attatcaatt tgtaagtata aaaactgcaa gtatagtgtg tagttgataa gaaaggtaga 120
 taataaaact taaaagggat ggacacagat tgaaaaaggc cttgagtccc aagacaagag 180
 ctctgaactt taacaggcac tggaaaccgt cataggtctt aggtaggaat atgctgtgct 240
 ccaccatctt taattagggt ttatggaggt ttgatagcaa gagggtagga atatcattta 300
 gcaggctact gcaagtatcc aggtgaaatg tacagaggtt ttgaactagg ctgctgggga 360
 ggggtgcagag aagaaatatt ttggaataa aatggacaga aagtgtataa atggataaag 420
 agaggaaatg aactgacacc aggccttcaag cctgatgcct gagaataaag gtgtaattat 480
 gaagggaatc caggaagaca tggaaagagt ggttggagta aggttaaaat gatagtttta 540
 gattgggtta ttttgacgtt gaagtgttga ccaactcttt aagtgaaaat gtgcaacagt 600
 cattgaaaaat atgagttt 618

<210> 23
 <211> 711
 <212> DNA
 <213> Homo sapiens

<400> 23
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 atctcttatt atatatatc taccttttta tgggaaaaac tactcttttt ggtgtaaaga 120
 tattttttat atttctttg cttgtaagaa gtattatca atttgtaagt ataaaaactg 180
 caagtatagt tggtagttga taagaaagggt agataataaa acttaaaagg gatggacaca 240
 gattgaaaaa ggccttgagt gccaaagaca gagctctgaa ctttaacagg cactggaaac 300
 cgctataggt cttaggttag aatatgctgt gctccacca tcttaattag gctttatgga 360

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ggtttgatag caagagggtg ggaatatcat ttagcaggct actgcaagta tccaggtgaa 420
atgtacagag gttttgaact aggcgtgctgg ggagggtgca gagaagaaat attttgaaa 480
taaaatggac agaaagtga taaatggata aagagaggaa tagaactgac accaggcttc 540
aagcctgatg cctgagaata aaggtgtaat tatgaaggga atccagggaag acatggaaag 600
agtggttgga gtaagggttaa agtgatagtt ttagattggg ttattttgac gttgaagtgt 660
tgaccaactt cttaagtga aatgtgcaac agtcattgaa aatatgagtt t 711

```

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<210> 24
<211> 547
<212> DNA
<213> Homo sapiens

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<400> 24
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gaattgatta ttcatgaaga cacaatgtaa catcaagttt ggggttaattg tcctcagtg 120
aacaacaaag acgtatttgt aatcactccc atgagtctac tttgcagcaa gaacatgcat 180
tttggaaatta ttcccatcct gtgtgctgaa tactggatgt gactcttagt cagctctgtg 240
accccttgca agtaacttaa gctctttgat catcagcttt gtcattctgta aaatgggcat 300
tctgcctact tcaaaagaga gttgaaggga ttaaacgaga taacctacaa agagcaccca 360
gcacaatggc ctaaaaaagg aaggcactga atcattctca ctcccctacc ttcagtctga 420
tcctgctctt attgtcaaaa ggataatttc aattttaata gatctgagat cctgtttttt 480
aataataatt ttatagaatt tttcatttta tggcaggcac agggctcatg cctgtaatcc 540
cagcact 547

```

```

<210> 25
<211> 549
<212> DNA
<213> Homo sapiens

```

```

<400> 25
gcaaaagacct catgaggggt caacgagggg aagccctcgt gggtcagagt acgccacggg 60
acagactatg ctggcagcct ctatagctgtt gaactctgtt cttgaagact gggcagaatc 120
taggaagaac ggaggcacct gagttcacca ggtgggacga acctggcctt agcacggaat 180
gtggcattta ggtgcttaag tttgttgttt tttttaaatt aaagtgggtg acctggagag 240
ctgggtgctga aatgtagcag gaggtctatt tggaaagaag gatggagtag attatgaaag 300
ttcttaaaata tcataatgag gcttgtggat tttattctgt ggtttggatg ctctcttctt 360
ccatcccttg gatgccaaca ggcattgcact gtttaattct ggaattcaaa cgggtggctc 420
aaacagtgcg gctgagtatg tggcctcatt agcttcagac ccagcagggc tgggctcaca 480
ggcgtgtcat ttatcaaggg cttgaatctc tgccagctaa tttatctaa acaactctat 540
gagatgggg 549

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<210> 26
<211> 350
<212> DNA
<213> Homo sapiens

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<400> 26
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tctgtagact tttaatggaa tattatttgc ctctttcatc ttaccttgac gtatgagggt 120
gatggcttac gtgcagggta atgtatgaac cttcccaagc tctgtacaaa tataacttgt 180
cattcgtaga gacgtatgta tttatatgtg tgcattgagc cttattttgta gattttcttc 240
ccatttgctt aatactgaac gctatggcct agatgtgaaa tttaccagggt actactcata 300
gcaggcagtg aaacctgtga ctcagctgct ctttccttct ttctcccca 350

```

```

<210> 27
<211> 627
<212> DNA
<213> Homo sapiens

```

```

<400> 27
ccacgcgtcc ggtttcaaaa aagaagagta agtcaaaggt taaacttttg gggcggagga 60
aaaaggataa gaaagaggat acagagttta atcagagttg gcatcagata gagtaacat 120
ggacatttgg aagctgtaac ctctctcata tttcgccaag gataactgct tcctgtatta 180
tcattgtaag agttttatgc gtgatggaaa atgtaaaagt aatcttaacc caaacctgca 240
ttttaatgcc acatggaccg gctgtaattt atggcatctt taagatagat gggtagacat 300
attatgaata tactttcctt ttgccagacc ttgacattct gtacactttt aatggaatat 360
tatttgcttc tttcatctta ccttgacgta tgaggtggat ggcttaactg cagggtaatg 420
tatgaacctt cccaagctct gtacaaatat aacttgtcat tcgtagagac gtatgtattt 480
atatgtgtgc atgcagcttt attttagatg tttcttccca tttgcttaat actgaacgct 540
atggcctaga tgtgaaattt accagggtact actcatagca ggcagtgaaa ccgtggactc 600
agctgctctt tctctcttct cttcccca 627

```

```

<210> 28
<211> 548
<212> DNA
<213> Homo sapiens

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<220>
<221> unsure
<222> (132)..(348)
<223> a, c, g or t

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<400> 28
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tcttgcgtga gtnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
atgttgatag aaaaatgggt tgatggcagc atatatccag attgtagatt tcataatatt 420
aaaggggagt ggggcaataa taaaatgcaa gaaatgaaag cattttgaaa ttttagaggac 480

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agaaatgact ttttaagtaag tgatttttagg tgtactggaa tgagtaatct agaataatttg 540
 atatgaga 548

<210> 29
 <211> 988
 <212> DNA
 <213> Homo sapiens

<400> 29
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 aaggggcaaaa gtgtgctctt ttacatgcca gaaacctcaa gaatttttcg taagggtacag 120
 ttcaaggaaa accaagcagc tcttgactca acaataaaaa atgtaagtct gtctgaagaa 180
 ttagtgaaac agggcaccac gtcagcttcc tctctaaaata aatttggaga gctgaaagat 240
 atggatgagg tcagatttct aaaaaatcag tatacacaca gtgttttaag aataaaaaaac 300
 agattgatta aagggaaaaa taatttghtaa ataacagaag ccataactta gagataaaaa 360
 taactgtcct ctgattaaca gaacttttag aatgatgaga aaaattaata acacagttaa 420
 agatatcaca gtgattttta aaaatatctc aagggtgaag aaaaaatatt cctatgagaa 480
 tacaggctga aaaagatcaa agtaaaatga atcaggtcgg tatcagaaat ttcagtgata 540
 tacaattgaag gaataaaaatg gagcagcagc tatagttttg aaacaaaatg tattttccaa 600
 ggttcttgtta cccaaccaa ttataactta tgtgttagga caatagagaa gtaatttttag 660
 ccaaaagaat aatctgaaat tatagcatct atgcacattt attgaaacaa gaaactcaga 720
 aatcaaaaata gccgagaaat taataaaaaa ttcaaaagga ggaataata ttttagaata 780
 aagcataatg aggaataaaa tcactatgac tttttgaaag tataaaaaat gttatttttt 840
 tctatgaata ctgtctcaaa tttaaagtag tggatttaat gttgtagcgc taagtattca 900
 gccagagagt agaactaata aataaaaaatg atagtctctt taaaaaaca taaaaataat 960
 tatctcatga gtacgcttaag aaaaaagc 988

<210> 30
 <211> 651
 <212> DNA
 <213> Homo sapiens

<400> 30
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 agggatggaa ctcacactat ttaaaagggtg aagactgcca cgtcagtggt aaattgttta 120
 aaaaagtcca acacatttgg ggctggacac accagtcaaa tgggtgaaat tagaagatgg 180
 ggaaaaaata tgtcaggttaa atactttatt tcatgtgatt tatgacttcc cctgtaagaa 240
 gcattattat tttatcataa taccacaaaa aaaaaaacaa caaaggcagc taaattctga 300
 aattaattgc atatgcacata tgatttcaga tatattaaac tgtgaaaaaa gtgcgtttaa 360
 atggtaaaag acaataatca aaataaagtt tgtatagcaa tattaatc acataaaaaa 420
 taaattagaa caaaaaagca cttataggga taaagagaaa caccagagaa aaacaaagaa 480
 aaaaatcctaa gaaaataata cttcacata cttatatggt ttaacagcaa agcccgtgaa 540
 ctgtttaata taggaagcac aaacgtgact gaagttacaa gagactgaga caactttcaa 600
 aactcatggg gggagaattt tatcacttca acagaaactt aacaatttaa c 651

<210> 31
 <211> 553
 <212> DNA
 <213> Homo sapiens

<400> 31
 actggacttc ctctttcttc catcaaagac taagatgcct ttttcccttg atgtacttta 60
 ttttgtggag catattatct actttcctga aaaaatgggt tatggggagat aaatcataaa 120
 aaggttttat tagattctac atctcatgat tgatccaaaa gacgttttaa aacaaaaaca 180
 aaaaaagggc ttgtaggtct taaactctac ttagccctac atttattga tagtttgagt 240
 gagtatctta aaaattgaag atgattataa aaattttaat gtacacatta tttttctca 300
 gaattttgaa ggcactgctc tgtcttttgc agttggagag tctgatgcca ttctgatctc 360
 taaatctttt atacaaaaa tggttttgc tttggcagga agctttacct tttctttctt 420
 tcaagtgtcc tgaaacttca ctgagatgta tcatggtata ggtccacttt gatccactgt 480
 cctggacact tgctagccct tttcagtcct gaagctcatg actttcaggt aagagaaatt 540
 tacgtctaa acc 553

<210> 32
 <211> 2159
 <212> DNA
 <213> Homo sapiens

<400> 32
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 tttggaggtt acagataatg ctactataaa catccatgtg cagggtttttg tgtgaatgta 180
 aagtttccaa ttcatattgag taaataccaa agcatgcaat tgctacatca tataaaagta 240
 tttgttggtac tataagaaac tgccaaaactg tctctttaag tggctatgca tattttcact 300
 tccaccagca ataaaatggag ttctgttgc tccacatgct cactagcatt tgggtgtgtc 360
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 caattcccta atgacatatg atgttgaaca tcttctcata tgcattattg ccactctgat 480
 atctactttg gtgaggtatc ttttcagatc ttttgccctt ttttttctt tgagacagag 540
 tctactctt gtccaccagg ctggagtgca gtggcagcat ctgagctcac tgcaacctct 600
 gccgtgctgg ttcaagcaat tcttctgcct cagcctccca agtagctggg attacaggca 660
 ccaccacca cgccagggtg atttttatat ttttcataga gatggggttt cgccatattg 720
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tcaacaagtc ctacccaaga attcaaaaca cctgtcagtc tttagtcccc tagtcttgaa 1500
gtttgagcag agtcacatata taccagagaa ttcgaggata gtatctccga gaagccggga 1560
aaaaactcag ttaagagaga agggatgctt taaaaaaaaa aaaagaggtc ttagacggtaa 1620
atttctctta cctgaaagtc atgagcttcg agactgaaaa ggctagacaa gtgtccagga 1680
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gttttggttt taaaacgtct tttggatcaa tcatgagatg tagaatctaa taaaaccttt 2040
ttatgattta tctccataaa accatttttt caggaaagta gataatatgc tccacaaaaa 2100
aaagtacatc aaggaaaaaa ggcaccttag tctttgatgg aagaaagagg aagtcacgt 2159

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<210> 33
<211> 450
<212> DNA
<213> Homo sapiens

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<400> 33
agaaaacaag atccagatgc aaaaatcgat tgtattttta ctatgctaata aattagcaga 60
tattgaaact tttttaaact acaattttat atagcatcag aaaaatggaa tgcttaagta 120
taaatctgac aaaaatgtgt agctacactgt acactggacc actaaacact agtgaacaa 180
aattgaagag ctacttaatt ggaaatcagt ttccccccag atttactat agagtcaagt 240
aaatcccaat caaaatctca gcaaggtctt taagaaattg acaattctat tttaaaattt 300
aagtgagatc gcgaaaaaac taaagcaatt ctctgacaaa aacaagaaaa aagctagaag 360
gctaacaacc acactgattg caagatttat cagaacaggt ataataatca ggccagtgtc 420
atatcgccat acacgataga ccaggagatc 450

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<210> 34
<211> 584
<212> DNA
<213> Homo sapiens

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<400> 34
ctagacttat ggatttgagg gagctgtgtg aaactcatca tggcaaatat gcttatgtgt 60
atatactctt tgccatacat gtgctgcaaa ctgtaatgaa atgtttatna taagactggg 120
aaggcatgtg ttattagact ggacacacaa aagcccttga ttatctagga agcaatcctc 180
tagggctcag atgtagtgtg gaatgtgggt gttttagtac actgtacttc attactgatt 240
tttttttcta tgctgtttga ctgtattagc tctttgttat tattggggag gttagccagc 300
gtctccagat tcccataatg aatttacagg tgtgatctta tggacaagga ggagtcaagt 360
gtattagttg ggggttcaat ctgtcctgat aagcttttcc tagttgggtt tacagatacg 420
agccctgacg tactccctgc tgccactgtc tgtttctatg atgcatgtca ccatgatatt 480
tgagtatgta tgaaaaatata tttaggctaa ttttaactga aatatggaaa ggaagaaagt 540
ctattgctct gcaattgctct gttttcagca atcactgttt ttca 584

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<210> 35
 <211> 642
 <212> DNA
 <213> Homo sapiens

<400> 35
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 tataatacct ttgccatata tgtgtctgcaa actgtaataa aatgttatatt ataagactgg 120
 taaggcatgt gttattagac tggacacaca aaagcccttg attatctagg aagcaatcct 180
 ctagggtcca gatgtagttt ggaatgtggg tgttttagtat cactgtactt cactactgat 240
 tttttattct atgtctgttg actgtattag ctctttgtta ttattgggga ggtagccaga 300
 ggtctccaga ttcccataat gaatttacag gtgtgatctt atggacaagg agggatcagc 360
 tgtattagtt ggggggttcaa tcttgccctga taagcttttc ctagtgtggt ttacagatac 420
 gagccctgat ctactccctg ctgccactgt ctgtttctat gatgcattgc accatgatat 480
 ctgagtatgt atgaaaaatat atttaggcta attttaacta gaatatggaa agggaaaaagt 540
 tctattgtct tgcatttgcct ctgtttttca gcaatcactg tttttcacc ccatatagaa 600
 agtttgaaag ctctctctga tgtctggcaa ccagatctcc ca 642

<210> 36
 <211> 669
 <212> DNA
 <213> Homo sapiens

<400> 36
 ccaaaattta ctagaatgtc ctgaaccaca tctttcataa tgttgctgac tcaaagactc 60
 ttgaaggctc ctgaccacat tattcgcaat tctaactctc ttgccacccc ttcccctga 120
 cccatgtaca attacatgct ctagatcttc tctcacaaga tgaacataag tctgaaatat 180
 caacaccttg gcagccctat tatcaattgc tgatctgtag tcccactgta agtacgcctt 240
 ttttagcaac cagtttttgt ccagccata ttaatacttg tggtcagtgg ttaacaattg 300
 tgaagcttaa attatatcca gatgaaattt taaaaggaa tcacttctgt tctctgtgt 360
 taacacagga atcccagcat gtgtttctct tccaggaaac cataattata tgtacaaata 420
 tctaccggga caattagggg cataatcatg ctctaataag aagtgttcaa acaagtcaac 480
 acctctctct cagttattcc tctttctctt tctctttaga tgtcatggtt tctgtgtctc 540
 aagacattta tgatttgatt tttctaacc tttctagggt ctattagagt caattagaca 600
 acatattcct tctttctaaag aatctggaca aggaggata cttttctaaa tttttaactc 660
 attaatgcc 669

<210> 37
 <211> 1006
 <212> DNA
 <213> Homo sapiens

<400> 37
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 caaataggct cagaaggtaa aatgaggacc caaggataga agagcgacag tgatttcagc 120
 tgagcctcag ttccaagcac agaacttttc agaaacagaa tggggtgcatt aatatgtccc 180

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cttttaaaag acactttgca gacctggatg cctgtgtgtt ggcattggagc atagagggtt 240
cctgtcctgg gtaaacatgc tgtgctggac taggttctct ctgaagctct ctcctgctt 300
caggagtcta gaattctaag ttctttctca ggagactcca aaatttacta gaatgtcctg 360
aaccacatct ttcataatgt tctgactcca aagactcttg aaggctcctg accacattat 420
tcgcaattct aactctcttg ccacccttc cccatgaccc atgtacaatt acatgtctta 480
gatcttctcc tcaaaagatg acataagtct gaaatatcaa caccttggca gccctattat 540
caattgtctg tctgtagtcc ccatgtaagt acgccttttt tagcaaccag tttttgtccc 600
agccatatta atactttgtg tcagtgggta acaatgttga agcttaaatt atatccagat 660
gaaattttta aaaggaatca cttgtgttcc tctgtgttaa cacaggaatc ccagcatgtg 720
tttctcttcc aggaaaccat aattatatgt acaaatatct accgggacaa ttaggggcat 780
aatcatgctc taaatagaag tgttcaaaca agtcaacacc ttctctccag ttattcctct 840
ttcttcttcc tcttagatgt catgggttct gtgtctcaag acatttatga ttgtattttt 900
ctaacccctt ctagggttcta tttaggtcaa tttagaaca tattcctctt ttctaagaat 960
ctggacaagg aggtatactt ttctaaattt taactctatt aatgcc 1006

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<210> 38
<211> 589
<212> DNA
<213> Homo sapiens

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<400> 38
aggagctggg ttttgcctaa cagaaggagc actgacccat gttatagaca atcgcagaat 60
ttcatatccc catctataaa atgaaaacac aatacttctc accaacactt atacagcacc 120
taactatgtc taggttagag atcataaact ggtgatatgt aagtgggaata taacctcag 180
acttggctct tgtgttctac gcagttgatc tgcaccagcc tttgttaaaa ttggaaggaa 240
attgtctaata tttaaaatca ggatatttcc cagcaaaatc tacatttcta gtatctcaga 300
aaaatcatta tttggcagca ctgggcccaga atttctgcag ggcaattgtt gtccctgactt 360
gggtggctgg tggaaatggg cgtgtactcc taagtttgtc ccaattgtcta ccgctctatt 420
acttcatcct ttaattgtca ctactcttgg cctgtgggga tttttgaggc tgagattcct 480
atattagggt ctgaaggcaa aacacacaca gaaaagaatg atttcaggcc ctctctgagc 540
atactcatga tgtataactt ttatgacagt aatagtagta tctagcaat 589

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<210> 39
<211> 528
<212> DNA
<213> Homo sapiens

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<400> 39
aagacctgtc tttattttta gaagtaagaa taaaagagat tgtgtgtggg tatcacaggc 60
agcgtggggg cactgagggg gccctgacc caccctagga gtggatcagg atgacttctg 120
aaaggccaaa ctgatttaata agggataaat aaagtcatgc aaatgaaaaa gttgtatatg 180
tggttggggg aagcattcca gacagaagga ccagtgtgtg caaaggccct ggggtgagag 240
gtgctctaact agtactgaat atacaagag gttagagctgg gactaaaacca ctgtgctcac 300
tttgctgtct tgaattccga ttccaaggag tggaaatagac ttcaaatgtc ttcaagtcca 360
cttgtttctg ccaagttctc atttttgttc catgaaggca gagcaccttc ttattttcat 420
ccactgatga tctctcagcc cttagaattc tgccttatga tggatttttc agaaatatgt 480

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ttgtgtaatg aagacaagga cagtggtag agtttacatt ctactggg

528

<210> 40

<211> 673

<212> DNA

<213> Homo sapiens

<400> 40

caaaaaataa aaaccaaacc attagttagg cgtggtagtg tgtcccaggt actcaggaag 60
ctgaggtggg aggattgctt gagtcccga gttggatgct gcaagtgaag atgattgtgc 120
cactgcagcc tgggtgacag aacaagaccc tgtctttaa aacaagaag aagaataaaa 180
gagattgttg tggagtatca caggcagcgt gggagcactg agggagcccc tgacccaccc 240
taggagtggg tcaggatgac ttctgaaagg ccaaactgat taataaggga taaataaagt 300
catgcacaatg aaaagggttg atagtgttg ggggaaagca ttccagacag aaggaccagt 360
gtgtgcaaa gcccctgggt gagaggtgcc taatcagtac tgaatataca aagaggtaga 420
gctgggacta aaccactgtg ctccactttg ctgcttgaat tccgattcca aggagtggaa 480
tagacttcaa atgtcttcaa gtccacttgt ttctgccaag ttctcatttt tgttccatga 540
aggcagagca cctctcttat ttcatccact gatgacttct cagcctctag aattctgcct 600
tatgatggat ttctcagaaa tatgtttgtg taatgaagac aaggacagtg gttagagttt 660
acattctact ggg 673

<210> 41

<211> 447

<212> DNA

<213> Homo sapiens

<400> 41

ctcaagcagg gctagcacct ccaatctaga gcacctgca cttccggctc caccgggtctt 60
cttgtccctt cactgccttg cctaggggtg cctctctctc ctctcttaag ctgagtacaa 120
gtgataatat agtgattaac acaatgctgt agtgttttcc tgttaaacag ggaatgggtg 180
attttccagg agaataaaaa atgaattgt cattggagga cctcctcagt tgaatacatt 240
ctgtggctga tttctccta ttttgttttt tgttgggttg ttgggttttt ctttttcagt 300
agctaccagg gtatacaaat agcttctttg cagtcttgat catctttagg ggccgcattg 360
ggcataaatt gaataataat actagctaac ctgcttgca ggccttgctc gtgctgtgca 420
ctttgtgagc actttaaata taggagc 447

<210> 42

<211> 562

<212> DNA

<213> Homo sapiens

<400> 42

ctcaagcagg gctagcacct ccaatctaga gcacctgca cttccggctc caccgggtctt 60
cttgtccctt cactgccttg cctaggggtg cctctctctc ctctcttaag ctgagtacaa 120
gtgataatat agtgattaac acaatgctgt agtgttttcc tgttaaacag ggaatgggtg 180

attttccagg agaatagaaa atgaaattgt cattggagga cctcctcagt tgaatcatt 240
 ctgtggctga ttctctccta ttttgtttt tgttgggttg ttggtttttg ctttttcagt 300
 agctaccoga gtatacaaat agcttctttg cagttctgat catcttttagg ggccgcattg 360
 ggcatatttg gaataataat actagctaac ctgcttgtag ggcttgctct gtgctgtgca 420
 ctttgtgagc actttaataa taggagccaa accctctctt ccaaagacct gaaggcgagg 480
 tgtctcgcga gttcccatc catagatcac catccttcca tggaaagtac tctgtggact 540
 gtaacttgcc atctagactt tt 562

<210> 43
 <211> 848
 <212> DNA
 <213> Homo sapiens

<400> 43
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 gcatcatcgg gggcctctct ctccatgtgt accctccagt atttgcaaaa gattgaacct 120
 acaagatacg ttattagggc aagtatttac atggaaaggc tctgagttct ccaagacttt 180
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 ccctgtgcct gcgcgtgtca gatcttccag catgctgggc tgtggaggtg ttggtctgtt 720
 tgccacccga gcaagcctct aagctcctca aagacaccaa ctgtcagcca tatctggagg 780
 agcacctggg accttacggg tccttaaatg ccggctgaat gaatgatgtc ttctgtctct 840
 ttaaaccc 848

<210> 44
 <211> 1111
 <212> DNA
 <213> Homo sapiens

<400> 44
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 gcatcatcgg gggcctctct ctccatgtgt accctccagt atttgcaaaa gattgaacct 120
 acaagatacg ttattagggc aagtatttac atggaaaggc tctgagttct ccaagacttt 180
 ggctattttt tacaagatga tgtactacc tgatgatttg tggaaatctc ttagggaaccg 240
 tgactgtgtt gcttttctga tcatgggtac agggccatct ttgttgaggc ttcccatgtg 300
 tgtgggcaca gagcttctgt ggcattccag cagtagatta atggagctgt catcctctga 360
 agcctcatcg gttgtgcatg caaaccttgt cctgtgaact gcatgggagt ctcttaaaag 420
 ggcagaggga ttcttctctt tgtgaaaggt ttagaatggc acatatttgt aatttccaga 480
 ctcatctttt cccactctca cattcactct gtatttggcc gtactaaatt gttgacagtt 540
 ctccaaatcc aacagcattg ctattctgct gccttcgtac atgccgttta cattactgtc 600

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acattgtcca ggaattcacc cctgccatga ctgcagtgcc cctctgga gctccccgtg 660
ccctgtgect gcegtgttca gagcttccag catgtctggc tgtggagggt ttggtctgtt 720
tgccacacca gcaagcctct aagctctcca aagacacca ctgtcacgca tatctggagc 780
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<210> 45
<211> 626
<212> DNA
<213> Homo sapiens

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<400> 45
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gataattcaa ttagtgaaac aaacaatgat aaagctata tatttctcgc tgatttgtca 180
ggaaatagtg acactgacaa agatagcatt acctaagaat ataaaagcaa agatagcgtt 240
gccacagact gcttaatgtg tgtcatctat caaaggggta tatgtgatga gaagaaaaac 300
ttgaaatgcc ctcaaatggt tcagctatca gaaactgaaa aaactcttac tagtgtgttc 360
cgcataattg tgagcaatat tctaaagatc gacgtttctt cagttatgat ttcttggagg 420
ctacatcaga gaacttcctt aaacctgtcg gtaatacaaa atcagttagt catggcaaac 480
gggagacatt atctatctgt tcttgactat ggaaaaaat gttgcagaat ctttgtctcg 540
tgtgtgaaga agcgtatgag acaggaccag aactgtccgg aagacgtatt tcaggagacg 600
cacatggcag tcgggcgcgc ctctag 626

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<210> 46
<211> 185
<212> DNA
<213> Homo sapiens

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<400> 46
gaagaaactg tgagggtaca atacttttga ttcatattgt gaatatcat acacactcac 60
atctetatta ctgtatccat ctctatatac ttgaactcca tatgtcttat attaacttcg 120
ccaaatccaa cccaacaaac aggggttcac tctgattttt ccccccata ttatgattct 180
cagac 185

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<210> 47
<211> 268
<212> DNA
<213> Homo sapiens

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<400> 47

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atggatttgc cacaagctgg ctttgaagc agtggttagag tgtgaaagaa gttaccttaa 60
gacttcttgc cagttgcact gtaggtacga tgtactgttt gttgtgattt gactttcctc 120
caccaccccc ctgccccagg aagatgtgat cttgtgcac tcgtgttcac gcagagtagg 180
gtagttggat ctttgtcaag tctcagtgat ccacatgcgt gcactctattt tgtcagctcg 240
cttgtctttg tatccatgtc atactgtc 268

<210> 48
<211> 108
<212> DNA
<213> Homo sapiens

<400> 48
gtcgagcagc acagcaatgc cgatccgcgt cagccccgca accggtgcgc gctgcaggcg 60
atgcctgccc tgcgcgagcg cttccccgag gcgcgcgctgg cgctggcc 108

<210> 49
<211> 83
<212> DNA
<213> Homo sapiens

<400> 49
gatcgagatc ggcggcgctgc cgctggtgca tctgcccccc gaggcggtgc gcgcgcctcg 60
gccgctcgac gagcgcgagg tgc 83

<210> 50
<211> 475
<212> DNA
<213> Homo sapiens

<400> 50
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tagcttaagg ggagaactat gatgttaatt ctttgaagat gagtaagtga attagaacaa 120
taacactatg agtttttcta taaacaaaat atagcaagat taagttgata acatacat 180
ctaaaatttt ggcttcctta gagaaagcca accaaatata aaattttaca gcagagtc 240
gttttttcag tttggcctat attttctttg gtaacactgt tctgaagtga tatgcagtg 300
ttatttcaca acttcctctt gaatgaacct tcaaaaatta atgattcttc acattcatga 360
ccagatgttt tctctgatgg aagcatctga tgtttgcagt catcaataa gattcaaaaat 420
gtctgtttca agcaaatcaa gtaaaacttc tccatcacat caaaagtaag gcttg 475

<210> 51
<211> 607
<212> DNA
<213> Homo sapiens


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<400> 51
aaagaaccaa gcaacaaata ggaaaatcaa atttttagaa gtaggtgcac aataggggaa 60
tagcttaagg ggagaacctat gatgttaatt ctttgaaagt gagtaatgta attagaacaa 120
taacactatg agttttttcta taaacaaaat atagcaagat taagttgata acatacattt 180
ctaaaatttt ggcttcctta gagaaagcca accaaatata aaattttaca gcagagtcaa 240
gttttttcag tttggcctat attttctttg gtaacactgt tctgaatgta tatgcagtgt 300
ttatttcaca actccctctc gaatgacctt tcaaaaatta atgattcttc acattcatga 360
ccagatgttt tctctgatgg aagcatctga tgtttgcagt catcaataa gattcaaaat 420
gtctgtttca agcaaatcaa gtaaaacttc tccatcacat caaaagtaag gctttatatg 480
gttcacaagt agctatatga aataaacaga atttaaacga tcttaataat ttttttcttt 540
aaacaaggtg acaaaaatac aatgccaata tataaaaact cctcataat gataagtgtc 600
agatgga 607
```

```
<210> 52
<211> 590
<212> DNA
<213> Homo sapiens
```

```
<400> 52
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gatgttttga tcagagtttt tagaaaattt ctaggatctg ttgccttttg acttttagagc 180
ttcttggagc cacatgtcag tactaaaacg ttttcttaag ccctcgcttt ccatagcaaa 240
aacatgttat gtccattatc cacctaactc atacttaaaa acaacaccca agatgctcta 300
ttttgttttc aaagtccagag aagaaaatag aggggaagta tttttatggt cttttccctg 360
aattgggtcg agctagttag ttcaaaaag atacaaaata tggaatacca cctattttat 420
ttcctggcaa ctgttttcatt caaatcatag agtaacatat gattactac actcctttat 480
gaatattaat ctctgtatctt cacagaatga cttaatatca ttgatcagct agaacaatga 540
ctccactgt ctgtgtgttt taacgaaatg tttatctcta gtcaaacacc 590
```

```
<210> 53
<211> 217
<212> DNA
<213> Homo sapiens
```

```
<400> 53
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gcaagaagtg agaaagacaa gaggttatct agtcacacct tgctatttta tagtttaaat 120
ccctcaacca catccctgat gaacttttgc cagtgcgggt aattaacaat atcacaaggc 180
tgttctgatt gtctgtattt ctcagtgttt gttagag 217
```

```
<210> 54
<211> 430
<212> DNA
<213> Homo sapiens
```

<400> 54
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agcaacatct ttaagact gaaagggtatc agcagaccga tgctacaaaa aatgtaaaag 120
aacatcatca ggcagaagga aaaaaatagt atcagattga agtctgttct acacaaagta 180
atgaatacca gaaatgataa ctacctgggt aatatataaa gattatttct ttcttattta 240
aagtaagagt gagattctta tcaacaatag cataaaggct gaaggggaga aatgggaatc 300
tattagtgtat atcttatata tgatgtggtg tgatgtcact tgaatgtaga attataaaga 360
taaacacgat aaactcttaa agcaaccacc aaaataacaa agagttataa ctaataattc 420
agcaaaaggag 430

<210> 55
<211> 2956
<212> DNA
<213> Homo sapiens

<400> 55
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ctcccgagta gctgggttta caggtgctcg ccaccacgcc cggtcaattt ttggttcttt 180
agtaggggtt caccgtgttg gccaggctgg tctcgaactg ctgacctcgt gatctgccca 240
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tctgatactt ttaaggtgtc tttctgaaga taaaacctga tgtgtctgca atgctagagt 480
gaggtctgag tatgggcaag ctctcctgag gcacgtgtga gctgaggaca gcatggcggt 540
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gcactgtctc actgggtgtt ttgacaactg ggagtgaata ctctcatgtc tcacaaaattc 660
aaatgctggt tttatcatgt ataaatatta tattggaaaa aaataaaatc ataataaggt 720
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agaatgtagc agaattcaca gctgggtggg aaaaagtata atacatgac tgcacacact 1560
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agaataaaga caccacactc ttttgcctag aggtcacaag tctcctctgg ataccgttct 1680
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```

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cattcttacc tttatt 2956

```

<210> 56

<211> 517

<212> DNA

<213> Homo sapiens

<400> 56

```

cctggctgga ggggacacgg tcaagaccgt cctccctacc ttctcccttc aacccaagct 60
caactcaacc aaaaaatggc cctctgtccc catgcctgat aggaagtga ggggaaagtc 120
tgtccgatta ctgtcaaaga agacaggagg taagggtcag agtggaccac tgactgaata 180
tgagtcgacg aagtgttaga ggcagaagtc caggggcatt tctttaatat cgaagtgtct 240
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ggggagagaa gcccaatagc agaggagaca gagtgtgggc ggggcagacc ggaaggggtgc 360
atcctggggag agcaccaggg tgaagggagg gtgaagatga gccccgtcag ggaagcgctg 420
gcgagtgtgg gaagtcacct gccctcggc ctgtgagctg ctctgcttgg agtgactaag 480
gctcgggagg tccaggctcg gccagaggca gctcata 517

```

<210> 57

<211> 1490

<212> DNA

<213> Homo sapiens

<400> 57

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ggggaaccag acgcccagtc acaggcgaga gccctgggat gcaccggcca gaggccatgc 60
tgctgctgct cagccttgcc ctctctgggg gccccacctg ggcaggaggat aagtcagtgg 120
ggtctgcccc caatctcccc tgcctccctc caggagagcc agggactcac ccggcccttg 180

```

```

tcccagacta actctggtea cagaaccatc ctgtctgcct ggagggggcg ggtccccgt 240
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ttcttcagag atgtatggcc ctggaggagg caagtatttc agcaccactg aagactacga 360
ccatgaaatc acagggtctgc ggggtgtctgt aggtctcttc ctggtgaaaa ggtgagtagg 420
gctatggtea tggggccagc gccatgtccc ctcccatccc acagtttcag gaactcaggg 480
cagcgggtaa gcacccctgg ccacttttgc cacacatgcc tggctactgt cgtactcttc 540
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ggaccactga ctgaatatga gtgcgagaag tgttagaggc agaagtcag ggcatttccc 780
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cgtgaaactg ggagccttag gtgggaatac ccagggaagtc accctgcagc 1490

```

```

<210> 58
<211> 436
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (197)
<223> a, c, g or t

```

```

<220>
<221> unsure
<222> (432)
<223> a, c, g or t

```

```

<400> 58
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cttggtctgc ctgtctgctg tgtcgctttt aggtctctgt gccacggcta actatgtttc 120
cctgtgtttc cagataaaact tgtgagggtc agaagctgac agaccaagct catttttcaa 180
gccaatctgt gtcatanaga gaccacgggt ttctcttggg ttgggtcctt ctacctggtt 240
cagtcagctg tgaacaaaaa ttgtggaatt tggctatttt ccttaaaatg gagatacag 300
agatcaccat ggctggcgtg aaactagttc tggatctgat tgtcttttca attgtttgtc 360
catcaggtga acccactctg aggggacttt tggtaacatt ttcccaaaa taagatcat 420
taattaatta tnaaaa
436

```

<210> 59
 <211> 458
 <212> DNA
 <213> Homo sapiens

<400> 59
 ctctgtctcc tcataaggaat ttcttagttt ottggcttcc gaatgtgact caaccctcc 60
 cttaggcctgt ctgtctgctg tgtcgctttt aggttctgct gccacggcta actatgtttc 120
 cctgtgtttc cagataaact tgtgagggtc agaagctgac agaccaagct catttttcaa 180
 gccaatctgt gtcatacaga gaccacgggt ttcccttggg ttgggtcctt ctacctgggt 240
 cagtcagctg tgaacaaaac ttgtggaatt tggtcatttt ccttaaaatg gagatacgag 300
 agatcaccat ggctggcgtg aaactagtgc tggatctgat tgtcttttca attgtttgtc 360
 catcaggtga acccactctg aagggaactt tggtaacatt ttccccaaaa taaagatcat 420
 taattaatta taaaaaaaaa aaaaaaaaaa gagcggcc 458

<210> 60
 <211> 359
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (336)
 <223> a, c, g or t

<400> 60
 cggacgcgtg ggaacacaa actgcatcat ccaaaaatac acctttggtc cacggatgcc 60
 actggaagac atctgaattt tagacctcca gagagaagat ctgggtggct agctccagag 120
 tggaggcatg cttgcttttt ctttacactt gtgaagagga atggatccgg acatctgcaa 180
 tctgggtaga ggacggcagg cagcaagctt agccactcgg ccaggcttct cagcccttac 240
 tctagacatg tgatccttcc tccacgtgat atacttcaca actttcttac ggctactcaa 300
 ggcattccaa gttaaaagga aggtcagatg tgattnatca ctttattatg ataaaaaa 359

<210> 61
 <211> 932
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (161)..(180)
 <223> a, c, g or t

<400> 61

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tggccagaga catatgaaaa gatgccttag acatatagca tcttttctca tccacttact 60
aggagaaatg ctcactaaaa ttatcctgta atgccattta aaaaaatctc agattgttga 120
agtacaaaaa gttagataac atattatcaa ccaaaatgtg nnnnnnnnnn nnnnnnnnnn 180
ttggggccagc tgtgttttggg taaactagtt aaggtggttag ggttgtttgg tcaggaatta 240
aatcataaag aaaaaacaaa cctctgaaat gaaaactcat ggtgagggta aaacttcacc 300
cctttagatc acttatgttt aactgggtcta ctggattttt ttaaagggtta agaaaacaca 360
aactgcatca tccaaaaata cacttttggt ccacggatgc cactggaaga catctgaatt 420
ttagacctcc agagagaaga tctgggtggc tagctccaga gtggaggcat gcttgccttt 480
tctttacact tgtgaagagg aatggatccg gacatctgca atctgggtag aggcgcgcag 540
gcagcaagct tagccactcg gccaggcttc tcagccctta ctctagacat gtgatccctc 600
ctccacgtga tatacttcac aactttctta cggtactca aggcatccca agtataaagg 660
aaggtcagat gtgattctca ctttattatg ataaaaaaa ttactattta aatactataa 720
ataaatatta taataaatac taagctagaa ccatcagaat acatcacttc tgtatccagt 780
tttcaaagta tctttgggtg ttgtcaggaa taaataaaag taatcatttt atttctatta 840
aattatatac ggcactagtg gctagtactt ttgtacttat tagtacaacc ttaaaaagtc 900
ttaaaaagat ttcttttggg ttcagaacat aa 932

```

```

<210> 62
<211> 554
<212> DNA
<213> Homo sapiens

```

```

<400> 62
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ccaggcacag cagtgttgga ctctctgggt ggagccgtgt cccaccctgt cctgatactg 180
ccgtcttctc tttcacagtc ctccaggctt gggccagcct tgggggcagc agagcttctg 240
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tcatttgggt ttgctttttt tgtttgtttt ttttcacctt atttttgcca gacttaagct 480
agttttgctg cctttttgaa ctagtggaa gaaatcattta tttctggggg ataatttggg 540
ggcttttgaa tcca 554

```

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<210> 63
<211> 786
<212> DNA
<213> Homo sapiens

```

```

<400> 63
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ttccatgggg tccagggtcg tggggtccct ggcggtactg tgggctgtca gacgagggca 180
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tccggacggg caggactggg tgtgtcccat gagagcacct ccttctctgc ctttctctgtg 300
gactttgttc cacaccacct gcctgggttc cttcctttag tcacttccag ctccaggcac 360

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agcagttggt gactccttgg tgggagccgt gtcccaccog gtccctgatac tgcctgtcttc 420
 tcttttcacag tctctccaggc ttggggccagc cttgggggcca gcagagcttc tgggggtgagt 480
 gtccagatccc tgtgtcctga gagcggtagt caggggagagg gctggctcggg gcagggctgc 540
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 tgggctcgtg ctttcttcat ggttgccgct tgcctcgtgt cccttgaggt cttcatttgg 660
 ttttgccttt tttgtttgtt tgttttcacc taatttttgc cagacttaag ctagttttgc 720
 tgccttttga aactagtga agaatacttt tatttctctg ggaataattg ggggcttttt 780
 aatcca 786

<210> 64
 <211> 575
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (411)
 <223> a, c, g or t

<400> 64
 ggcacagcta gttggtgact ccttgggtgg agccgtgtcc caccgggtcc tgatactgcc 60
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 tatggttga gttccccatg cctgccaatc tctgtctgac tgcgagtcag ctccgatact 480
 tcaccagatt cagccacctg ggggagctgg aagtgaatct cctcgtagct gagccttttg 540
 atgagactgc agccccggct gacacctgga ttgca 575

<210> 65
 <211> 834
 <212> DNA
 <213> Homo sapiens

<400> 65
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 ctctttcaca gtctccagg cttgggcccag ccttgggggc agcagagctt ctgggctgac 120
 atgggctcat tgcctcttct ccaagccctc tgaggacatc aaaagcgtgg acgcatcact 180
 ttccaccatc ttgctgcccc ctgtccctcc atcctgaggc ctccctaagca catgtgtggg 240
 ttggcaggca cactgctgat agctgtggat ggggcctgta catccttcac ccctgcccc 300
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 tctctctgct actgcgagtc agctccgata cttcaccaga ttcagccacc tgggggagct 480
 ggaagtgaat ctccctctga ctgagccttc tgatgagact gcagcccccg ctgacacctg 540

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gattgcagca ctcatgaaag accctgagca gcaggaccag tttggcagag cccgaattcc 600
tgaccacacag gaactgggag ataaaaactct gtgggttttaa tcttctcatt ttagagtgc 660
cagtgctccat gtggtgtgaa cacgcttcac tcaacctggg cccttgggag agatgctgag 720
tggttcccgg gctgtcccca ctccacacca tggcagtgaa gagctgctga agtacatgct 780
tcatagtccc ttgogtctcc tctatgagta cagttcctgt ttgtggagta gcaa 834

```

```

<210> 66
<211> 437
<212> DNA
<213> Homo sapiens

```

```

<400> 66
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ggattcctgt gaagacattt tcttttgata aaagaatatt gataagaata ttataccaaa 120
ttgaacaaaa gtaggccacag tatgaaggat tcagtacatg gccaaataac ttatttcaaa 180
atagtttaga gttatatctc ttgaagacgg aggttgagat gggatataat ttgttaaga 240
cgccaatggc tgttaacaaa aagagctgag atggatgtgc tcttgaatta aaaataaaaa 300
tattttaaat atactattac atcataaaca ttctatgtct ctactttccc atctagaagc 360
aagaattcct tagtactttc cgagcatcta ctgtgtagac tatcttgtgt tatgaccaat 420
tgcttatatt tatttac 437

```

```

<210> 67
<211> 80
<212> DNA
<213> Homo sapiens

```

```

<400> 67
acaaaacccat atgcttcaac acctcaggtt gaccatttgg ggggagtggt tatgggtgtt 60
ttaagatggc ggggtatgcc 80

```

```

<210> 68
<211> 663
<212> DNA
<213> Homo sapiens

```

```

<400> 68
gtgtagagca tggagcagg gagaccagt aggagctctat tgaatagtc ctggtgagag 60
accacagcgg cttggactaa gatggcaact aagataatga tggttgcagg gccctctctc 120
aatggaggca tggccagcct tctggccatg aaggagaaaag tgatttcaac taaccaggga 180
aactcttacc tctaatgga gatacttctc gataacagaa gaaactgggc atctaaccga 240
gaaataccag ctgagttaga gaagagaaaa ggcacagacc agtcaagggt tcagaaggct 300
gccaaacagtc ttgttaagcc accttgggag tagatgagaa cggcaatcaa tcaacatggt 360
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gagttagaca tttctcattg tttctgtctc cccaggaaata ccatgctgtg ccagctcttg 480
ccatttatta accaactgat aatgggtcag tgctgtagtc atggaagcta tttcaaaagg 540

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<213> Homo sapiens
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<223> a, c, g or t
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<211> 739
<212> DNA
<213> Homo sapiens
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<210> 71
 <211> 9883
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (7153)
 <223> a, c, g or t

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<210> 72

<211> 93

<212> DNA

<213> Homo sapiens

<400> 72

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<211> 299
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 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (85)
 <223> a, c, g or t

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<210> 77
<211> 547
<212> DNA
<213> Homo sapiens
```

```
<400> 77
ggcttatatg tggagaactg acgtctgaac ccagatctga ttccaagtg taatactttc 60
caataggcag ccttatactc ctgtacctca aaagagaagg ctatattatt taaaagatta 120
ggaattgtcc tatatggttt taaaatacac ttgctatagc acaataataa gtggtttagt 180
ggtgactgct actcctgtga gtttggttta aaacagccc agtttgtacc ctgttggtca 240
tgataaaagc ataccacctt tactttgaga attttaacca tagagcaca tatgtgtcaa 300
acaagctaaa aaagtattct ttccagttgc attttgatgg acattgaaat tgcctagact 360
ctttgaccac aagtacaaac tgctgtttaa cgggtgacaa aatctgtttt catggacgct 420
aggctactta agctttattt tctcctaag cattctctgc ctttgtaaag cactctagca 480
gcagattttg cttagcttct aattttggtt ttgcttttgt gttttctctc ttctctctgg 540
ttgttcc 547
```

```
<210> 78
<211> 263
<212> DNA
<213> Homo sapiens
```

```
<400> 78
tcgaggggtg aaatgagtgt cattagccaa gtgacattta agtgccttg tttgtctgct 60
tgcttttctg tggattgaaa aaaactgacc actgttaata tgattgtaca gtgacactgg 120
aaatctgag atgtgtgtct ggtagtctc gcttgattt cagttgagat gcataccaa 180
tctgataatg cagagctttt ccatttcatg tgtctgttta ccatttctat gatcttaagc 240
aataaacatt tcttgacaac agc 263
```

```
<210> 79
<211> 765
<212> DNA
<213> Homo sapiens
```

```
<400> 79
gcgggaagag cagcgagccc tgcgagtact atttccgct gtaccactcg ctgtgcccac 60
tcagctgggt gagtcggcag agggggcgcc ggccaggcg tgtgcagggc tcggccgagg 120
```

```

ctgagccggc gtcccgcctc ctgcctttct gcttcccagg tggagagctg gaacgagcag 180
atcaagaacg ggatttttcgc cggcaaaatc tgactgcccc agcgcgggctt cctctgaaga 240
tgacgtgata ctgcctcttt ttgtctcgcg gagccccggg tctcggttat ccccccctac 300
ctcccagtggt ctaagccacg aataatgcc aagcctctcg agttccttgt tccccctgct 360
ctgggtctcca cgtgtatgat ggggtttctca ggcccaggct tcgaccagag gaccctctgc 420
caccacggtt tcttctgtgc cttgagctac cttggtgaac tcatgacccc aggccctctgc 480
tcaccacagga tgtcccccag gtccctgccag ctgggaagtgc ccagcatgaa cgcctccaac 540
tctgtggaag ccagggttccc ctgcagctga gggacgcaa gcagacacac ctgccctccc 600
cagccagctc ctgtctgtat gggcgagatg actgagagcg cccacgtccc taaggctgtc 660
ctgacctccc atgctcgcac aaggacaggg aatggtcggg cactatgggc ctggtgtctc 720
ccctccccc caccgggtgt ctgcccagct caagccagaa gtgac 765

```

<210> 80

<211> 162

<212> DNA

<213> Homo sapiens

<400> 80

```

cgctgcctca agaccaggac ccgccgcggg aagagcacgc agccctcgca gtactatttc 60
cgcggttacc actcgtctgt ccccatcagc tgggtggaga gctggaacga gcagatcgaa 120
gaacgggatt ttctgcctgt gcaaacatct tgacttgccc ca 162

```

<210> 81

<211> 986

<212> DNA

<213> Homo sapiens

<400> 81

```

agcgggcggg gcacgacggc tcccattggc tggggctcgg gcgtcctagc caatccggcc 60
gcggggtgcg tttctcttga cccgggtggg accgaccccc gcggactcag aagcgagcgg 120
caccgccgga ccattcccaca gcagatccag tggccgccaa cgtcaggctg gaggttgcctc 180
cttcgtggat gttggtatgt gaagcccagg agcccccaa ggggaaatgg tcgacgcgcg 240
ccttcgaccc gcgtctcccc agccagaacc agatccgtaa ctgctaccag aacttctctg 300
actaccacgc ctgcctcaag accaggaccc gccgcgggaa gagcacgcag cctctgcagt 360
actatttctc gcgtgtacca ctgcgtgtgc cccatcagct ggggtggagag ctggaacgag 420
cagatcaaga acgggatttt cgccggcaca atctgactgc cccagcgcgg cttcctctga 480
agatgcagtg atcctgcata tttttgtctc gcggagcccc gggctctcgt tatccacccc 540
tacctcccag tgtctaagcc acgaataatg ccaccagcct tcgagttcct tgtttgcctc 600
gtctcgtgtg ctccacgtgt atgatggggg tctcaggccc aggccttcag cagaggagcc 660
ctctggccac caccgtttct tcctgtgcct tgagctacct tgggtgaactc atgaccccag 720
gccccctgct ccaccaggat gtccccaggc gtccctgccag ctgggaagtgc ccagcatgaa 780
gcgcctcaac tctgtggaag ccagggtccc tcgagctgag ggcgcgcaa cagacacacc 840
tgccctcccc agacagctcc tgtctgtatg ggcgagatga ctgagagcgc ccacgtccct 900
aaggctgtcc tgacctccat gctgcgacaa ggacagggaa tggctcggtca ctatgggcct 960
ggtgtctccc ctccccatc aaccgg

```


<210> 82
 <211> 369
 <212> DNA
 <213> Homo sapiens

<400> 82
 aacccaagat gactcgtctt ttggtgggag aattcactct gttcatgttt catttaacaa 60
 ttgatctact gtacttaatt acctttggct tattttacat ttattgggtt atcttgtgtt 120
 tttcttcctt ctgatctggt tatcgatttc ctttttcttc ccctgttgca ctttccattt 180
 cattattggc agctgtccct tctctggggt tcctaatacaa acacatatct tttagcacat 240
 gcctcgatgg ggattctttt cgcagcacc ccatctggag ctacacagaac ctgtcactct 300
 gtagggtctg gtcttttttc agcttaggaa catctatttg ttgcttgatt tgattattgt 360
 tagtttgtt

<210> 83
 <211> 923
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (354)..(565)
 <223> a, c, g or t

<400> 83
 aacccaagat gactcgtctt ttggtgggag aattcactct gttcatgttt catttaacaa 60
 ttgatctact gtacttaatt acctttggct tattttacat ttattgggtt atcttgtgtt 120
 tttcttcctt ctgatctggt tatcgatttc ctttttcttc ccctgttgca ctttccattt 180
 cattattggc agctgtccct tctctggggt tcctaatacaa acacatatct tttagcacat 240
 gcctcgatgg ggattctttt cgcagcacc ccatctggag ctacacagaac ctgtcactct 300
 gtagggtctg gtcttttttc agcttaggaa catctatttg ttgcttgatt tgannnnnnn 360
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
 nnnnnnnnnn nnnnnnnnnn nnnnnccctg gataggaagg gataggaaga gactacttgg 600
 tgccatgggg taggggtgag ggtataagta gatcagagtg ggaagacctc agccttgggt 660
 ggcttgtctc tgcttcttgc cagggtggag ggctgtgcca cacttggtac ccctgaccac 720
 agtgcacgcc atgcccttcc ctgggctacc attgtccctt tcttcaccca gttggtagag 780
 gagtcaggag gtggggaggcc gtgggctttg gttttataat gtaaccactg tgggggtggg 840
 ggaggatggt gaaccatgta ttccagtga atatttaata tatttaataa tcaataaaat 900
 caaactcttt gtaaaaaaag ccg 923

<210> 84
 <211> 338
 <212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (12)

<223> a, c, g or t

<400> 84

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gtagtTTaat cTTTTtggga agacatgact ttaaggagat tccctgcttt gtgacagggt 120
gctccatgct gtcttgggga caagggcctg tactgccttc aaatctgggc tcacccacaca 180
TTTTggtgag gggaagatag ggtgggggga taaggaggag aaaagactct agctTTTT 240
ttctatgcat gatatactgt gtgggtttat caagagtgtga gacacagttg ctgttctcaa 300
ataataggcc aaataaaatg cgattctttt tttctttg 338
```

<210> 85

<211> 436

<212> DNA

<213> Homo sapiens

<400> 85

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ataatTTTT tTTTTttaa ggaaatgaac gtggaggact ggggtgaagg gccagcctgg 60
gtagtTTaat cTTTTtggga agacatgact ttaaggagat tccctgcttt gtgacagggt 120
gctccatgct gtcttgggga caagggcctg tactgccttc aaatctgggc tcacccacaca 180
TTTTggtgag gggaagatag ggtgggggga taaggaggag aaaagactct agctTTTT 240
ttctatgcat gatatactgt gtgggtttat caagagtgtga gacacagttg ctgttctcaa 300
ataataggcc aaataaaatg cgattctttt tttctttgaa acacacagaa cagccacgt 360
ataaaacagg caactgagga agaaccacac cgcataccgg caagactcta gcatgtcaag 420
gtcaaagact ctccag 436
```

<210> 86

<211> 462

<212> DNA

<213> Homo sapiens

<400> 86

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agggaacggt ggaagtgtgt acactgctgt tgggtgttact tagacctta tttttccacc 60
agactgtagt gttcaaaatt cTTTTtagta agagaaccct tttttctga actttttaca 120
accatctcca aattataaaa cataagactt tTTTTtagta aaaatatatt tttttacaag 180
cacagtggct tgcacatgg aggggagagg aggtgttttg tccttggagc tgcctggcctg 240
agagaacctt gtcctctggg gagctggggc attcctacac agtgggtctgg caatgacctg 300
gtggtggtgg aggcctgtga gtgggcactg gtaatgggaa cagctgtaaa accctggagg 360
ccagccccag gagagtgaac ttaccaggga aagttctggg aaacaaacca cagggagggt 420
ttacaggaat ttttggttgt gccacaggc aaggcacatg ag 462
```

<210> 87
 <211> 1435
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (1012)..(1119)
 <223> a, c, g or t

<400> 87
 ttagaggtag aagaactgac tataagcaga agtgtttgag gaggtgcat ggagaacaag 60
 gggcatcatc ttggcccttg gcagggttggc aggatttgac ttgggtgaaga gaacgagaaa 120
 ggggacttta actgggagga ctactctggc ttgtatttct ccatcatgag gagattgggtc 180
 ttgtgaaagt gtactctcca gagaccttcg atgtttgcta acatgtccaa gctctacatt 240
 tattgattgt tggttctgtt catggctatg ttcaaattct tgtacctttt tgcctccac 300
 agtttcttgt ctcatccctg tcttccacct ctgctccccg ctcttgtctg gtctaattaa 360
 ctctctctgt tggagcagct tccccctctg ggtaaaacta gacatgaccg cagcaaaagca 420
 gcgtggaate ttctgttttg tcagtgttcc ccccgagcctc cccgcagata cagctgcatt 480
 ggagcccttg aagacaaacc agagaagtgc tgcattcctg ggggcaggag gctttgcttt 540
 gccagggtg gggctcctga atgaattttg gtgcagcctt aacggccgag ttgtgtctgt 600
 gaaggtgcac tgctctgtgt ccaggcactt catggagggg agaggagggtg ttttgcctt 660
 ggagctgtgt gcttgagaga accttgtcat cgtgggagct gggccattcc tacacagtgg 720
 tctggcaatg acccggtggt ggtggaggcc tgtgagtggg cactggtaat gggaacagct 780
 gtaaaacctt ggaggccagc cccaggagag tgaccttacc aggaagaattc tgggaaacaa 840
 accacagggg ggcctttacg gaatttttgg ttgtgccac aggcaggca catgaggaaa 900
 agaaatgtaa ttatagtgtt taagtcgatg aaaaggagca atgagtga caaaatagct 960
 gctctaagtt tcttcttctc gtcggacagg aagaaatggg gttttatgca tnnnnnnnnn 1020
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1080
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1140
 taagcagata actgtataaa tgcataatta cacagcatgg tgagtgtctt gaaggataag 1200
 tgtggggagc ctcatattaga ttggaggatt gtgaaagtca agagacagga gagtcaaggt 1260
 gaggcaaggt gagtaagagc tatccaggca aagactgctt ggtaggggag tgtcccgaga 1320
 acgggaaaca acctggaaaa aatatgacac ctacggggaa ctaaaagcag ttgtatgtgg 1380
 ctgatgcaca gacaggggag ggcaggaagt gtgctgaaag aaggcaggag gagaa 1435

<210> 88
 <211> 459
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (437)
 <223> a, c, g or t

<400> 88

gtctggtttg agtctaggat gaaggtacct tctccagga aggccttgggt gttccttctg 60
ccagactcct gagggtctcg ccagttcaag cccacttgaa gccagctcg tttgggggta 120
cttgaacat ctgggggatt ccaactagta tctttagctc ctgacatgag ctgttctact 180
gtgggctcag cccttgtctg agactgtatc cctatagggt cccggtcttc tgttgacccc 240
tcacctcttg tgggctcggg catggacctc tgatccctcc atctgaagaa gtgtcaaaaat 300
aaaagtcct gcttccggga atcaggaagt cgcctcaagg caaaagtagc tgagtgttct 360
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gttgattctt taagtcttag cataacacac attttaaaa 459

<210> 89
<211> 1263
<212> DNA
<213> Homo sapiens

<400> 89
gtctggtttg agtctaggat gaaggtacct tctccagga aggccttgggt gttccttctg 60
ccagactcct gagggtctcg ccagttcaag cccacttgaa gccagctcg tttgggggta 120
cttgaacat ctgggggatt ccaactagta tctttagctc ctgacatgag ctgttctact 180
gtgggctcag cccttgtctg agactgtatc cctatagggt cccggtcttc tgttgacccc 240
tcacctcttg tgggctcggg gcatggacct ctgactcttc catctgaaga agctgtcaaa 300
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tctatatctg ttttgttttc ctttctatct tctctttttg gtgggtaat ctccaccact 420
ttgtgtattc tttaagtctt agcataacac acattttaaa aatccagtg ttttagttgc 480
tttctgtctc catagaagg tcccatgtgt ctgacccctg tcggacctgg agccttggtac 540
catgaccagg gacaggagg cctcatgccc ttttaagcag tgggtgatcta agttttattt 600
cttaggtgag tcaaggctgg aaaagcttga gaccctgct ctaggggctg tacctgtccc 660
tttctccctt tcttccctgtc tggactaggg ttcgaagggg ctgggtgggcc atgtggagac 720
caagttagctg acaatcccca ggacctgtgt gctcagacac agggccctgc acctctcagc 780
ccttcggctc tcagctcagc acctcccttg cctggccctc ctttctgca tgagctccct 840
gcctctgccca ggaggaaacct ctgtcctgtt tctagatgct ccatactctc tcccacctcc 900
tgctctttcc tccagttgtg tgctctcgtaa cctcttctc cctccaaggc taaatcaaac 960
cctacctctc tatacaggag gaagtaattt ctgggttgat gtatgcctcc gccagattca 1020
tgctgagcca acaggttagg ggctggagaa acagtgtatg gcttaaccag gccctgccag 1080
cctgcccacc ccgagctctg tgagggtagc aaaaaacata aagtgaatt gataaataat 1140
ataactatc catatcata tttttattt ttattattt ggagcagaag cttgtctctg 1200
cactccagcc tgagctacag agtgagaccg tgtctcaaaa aaaaaataa aaaaaaaaaa 1260
aaa 1263

<210> 90
<211> 554
<212> DNA
<213> Homo sapiens

<400> 90
gtctgagctg ttttcttcag gtgagtagaa caatggcatt ttaaatctaa gaggcaccta 60
gtaaatacat ttatttcaat tcttttctca cataggggaa gaaacagagg ctgcaaaaga 120

tttagttagt tcaagaaaa acagtataat ttggagtttt tgactttgtg agttttgtta 180
 cggcgctgac attcattctt ttgtgcgttc agtgtattca aatcttcaaa tctagagcac 240
 attgtatgct gggcagaagg cacagtactt gaggattcag tggacagtgta tacagaaaaag 300
 gctgctgtcc ttgggcactg atgagcctcg ggctactaca agtaagcagg cagtggcagt 360
 aggtggaatg agggctgcag gtcctggcat catggatacc aatttgggct tagaatggaa 420
 gcggaggctt ccttgaagaa cagcgggtcta agctgagact tgtaggaata gtgtaatta 480
 acaaacagac aggaagaaga gctttccagg aagacagcaa aacataggca aaggtctgga 540
 gaggagagag agca 554

<210> 91
 <211> 435
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (406)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (411)..(412)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (421)
 <223> a, c, g or t

<400> 91
 tattagtcca taaaggctat ttctagtatt aaacaatgct taagaatagc ttggatccat 60
 gaaaactttt gagaaggagg acaaaagcaga cggaacctaa tctctgaaca atttcaatta 120
 catctttttac aagtggctgt tggctagtca ttaaaaatga gccattcaca cttgtggaca 180
 cctttttttgc catgcagact tgacttgcaa agcctttatt atccctgtgt aagaacagca 240
 cagctaataa aaacgaatca tatggcttta aactacttgc atccaacagg gacatcctaa 300
 aaatggtccg gatagtgaact tcatgacctt taggctgca agtgccatag ttactaatga 360
 gaacagatat ttccaaatgg cggaataga ttatggaaaa tggagnaagg nnagagagta 420
 ntctactttc agcta 435

<210> 92
 <211> 580
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure

<222> (551)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (556) .. (557)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (566)
 <223> a, c, g or t

<400> 92
 aaaaaaactg tttagaaaaac cttcatattt actctcccggt tcaaaactatt ggccctgatt 60
 ttacagata atcaaaagtc aggcctgcaa acttattttc ttggaatttg gaatatcttt 120
 taaaatttgc ctttttcttt cttattatta gtccataaag gctattttcta gtattaaaca 180
 atgcttaaga atagcttgga tccatgaaaa cttttgagaa ggaggacaaa gcagacggaa 240
 cctaattctt gaacaatttc aattacatct tttaacaagt gctgttggt agtcattaaa 300
 aatgagccat tcacacttgt ggacaccttt ttggccatgc agacttgact tgcaaaagcct 360
 ttattatccc tgggttaagaa cagcacagct aataaaaaacg aatcatatgg ctttaaaacta 420
 cttgcatcca acagggacat cctaaaaatg gtccggatag tgacttcag accatttagg 480
 ctgcaagtgc catagtgtact aatgagaaca gatatttcca aatggcggca atagattatg 540
 gaaaattggag naaggnnaga gagtanttta ctttcagcta 580

<210> 93
 <211> 724
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (297) .. (602)
 <223> a, c, g or t

<400> 93
 tactgatgtg cttttgattt gtctggagggt tgactactac ctctttgagg tgccctctgg 60
 gacctcaaaa atattaaact ttatactctg tgtagcctgt actttaagcc agaaccattca 120
 aagtacactg aagaaaatgtg ttgaaaatct atgcaacctt ttctgcatta tgtactagca 180
 aataaacaat ctttaatttc tggaaatttc cattttcttc agtgcatttg ttgattgatt 240
 tgtagttttc ttctcttgct aggttttcagt atcagggtcg taccattttt ttctctnnnn 300
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
 nntgtgacct ctttatgaag tgaattatga agctttccaa tcttttttat ttgttagaac 660

agtttaaata cacaacaata tactaagttc ttagattgaa gctgttttta aatcacaaaag 720
acag 724

<210> 94
<211> 586
<212> DNA
<213> Homo sapiens

<400> 94
ctaagacagt ggccaatctg actgtgaaaa taagggcagg ctacactgga gagcagggat 60
agggacacccc gggggggcaga gatgtgggtc accttagggg aggacacact caggaggccg 120
gcccatgatg gcacatgaag gctgggagca cgggtgctcaa ggatcagctc atcaggggaac 180
ttgaccaaatt ttagagcaag gccctttgat agtgtataga gatgtttgtt ctaagcagca 240
atagaaaagct tctggaaatct gttccattaa gaggtgatag aaacaaaata tgagtcgttt 300
tggagttggt ttcagcagag tcacaatgat agcaccatta tagatatattt acagacataa 360
tctgatcttt ttgggtggat gaccagaatg tctagttggg tcaactgagcc ctggttttga 420
cccaatatgg taattcgtga actcttagga gggcagaaat atcctaattc tgtgcaagggc 480
agggaccctt ggactgtaac tgtcttgctc gcttttggtc gtgaaggaga ctgagaggcc 540
caaacaagaa tttagggaaa agagcaatag gattgtgttt aaaaaa 586

<210> 95
<211> 491
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (480)
<223> a, c, g or t

<400> 95
aaataattta acctaggaaa agaaaaagaa aattgaaaat tggagctaaa ataatttgat 60
ttttccctca acaggggttat tggctgtctt ttaagtgtact aaaagagcgt atctttatgt 120
gaatttttag catgggcata tgattaatac aaggataaag caaccaaag ctctcagtat 180
ttattcccggt gctatttgct tgttttttag ttcattggagt attgtattgt acttggtta 240
ttgatgcttt tgagatgtcc tttagacaga tttttaacta caggacttcc tctgtagaat 300
cgacaatgtg tttcactctc tgtggcattg acaatgtttt tgaatgccta attgttcagt 360
agaactccgt ggttattatt acaactttgt acattattat aaatatttta tattagttgt 420
atattccact gcagatagca accagaaaac taaaatacag aaatattaca tattagaggn 480
gattataatg g 491

<210> 96
<211> 634
<212> DNA
<213> Homo sapiens

```

<400> 96
aaataatttta acctaggaaa agaaaaagaa aattgaaaat tggagctaaa ataatttgat 60
ttttccctca acagggttat tggctgtctt ttaagtgact aaaagagcgt atctttatgt 120
gaatttttagg catgggcata tgattaatac aaggataaag caaccaaatg ctctcagtat 180
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cgacaatgtg tttcactctc tgtggcattg acaatgtttt tgaatgccta attgttcagt 360
agaactccgt ggttattatt acaactttgt acattattat aaatatttta tattagttgt 420
atattccact gcagatagca accagaaaac taaatacaga aatattacat atagagagaa 480
tataatgtac aaaaaaaatc ttgggagatg agtgcttttg gtttaattct atttttactg 540
aaaccagaga ataataggat tcaaattctac ctaatttttc tatttttctg attttccatt 600
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<210> 97
<211> 397
<212> DNA
<213> Homo sapiens

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<220>
<221> unsure
<222> (326)
<223> a, c, g or t

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<220>
<221> unsure
<222> (331)
<223> a, c, g or t

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<220>
<221> unsure
<222> (337)
<223> a, c, g or t

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<220>
<221> unsure
<222> (371)
<223> a, c, g or t

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<400> 97
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tccttatatac attagaattg catttatatt agggagtitt atattatccc acagatcctg 180
gatgatatat ttcattttct tccttttctt ttctctagtg ttccagtttg gacgagtttt 240
atcgacatat ctttaagggtc actaatgatt ttctcagctg tgtcaagtct cctgataagg 300
ccaataaaga gactatatct attatngtgt nttaanttc tagcatttcc attttattct 360
tagagtttaa nctctctaatt gaaattaccc atcttat 397

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<210> 98
 <211> 342
 <212> DNA
 <213> Homo sapiens

<400> 98
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 aagaggagaa tgcggaggag gctgcttgcc tgctgtggga tggatggcag gggcacttcc 120
 ccagactcac tttttctcaga tgtaaaactg accagccttg tgccacagat gtgaagatag 180
 ccccatagaa cttaaagagc agaccataac ttcccatgaa tgagagctac taacatttac 240
 atctgaaaaa caatttggat acttacccaa gtctccaaca aacaaagtca cactgaagct 300
 ggagagcaca ctcataacac ccggaaaaac attttttttt aa 342

<210> 99
 <211> 873
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (338)..(528)
 <223> a, c, g or t

<400> 99
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 ccagactcac tttttctcaga tgtaaaactg accagccttg tgccacagat gtgaagatag 180
 ccccatagaa cttaaagagc agaccataac ttcccatgaa tgagagctac taacatttac 240
 atctgaaaaa caatttggat acttacccaa gtctccaaca aacaaagtca cactgaagct 300
 ggagagcaca ctcataacac ccggaaaaac attttttttt nnnnnnnnnn nnnnnnnnnn 360
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntg aggagggcaa 540
 aaatcacctg gtgaccattg gacaggcccc agagacaaat ctctctacct gggcaattca 600
 gaaggagacc aagaccacct ggtgaccatc aaacaggcca tctggaggca aaactcctta 660
 tctgggaat ttgaagtaa tcaaaacttc ctagtatctg aagacggcat ctgatcatga 720
 tacaggaaat agaaagaat catttaggca gttagttagg gtgaggggaag agagaggccc 780
 totcatattg tttatttagg ccattagtga gggtagggga agagagagac cctctcatat 840
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<210> 100
 <211> 297
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (48)
 <223> a, c, g or t

<400> 100
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 cacacattca tatatggttt cagtcacaaa atgggggtcat tctctccctt gacctatcat 180
 ttaggggcatt ggaacatggc tgcattgtggc tctgtttgtg aggggtccagg ggaaggacag 240
 ggaggctctg cattattttg cttttaccaa cattgcagca tgaacgtttt tttaact 297

<210> 101
 <211> 258
 <212> DNA
 <213> Homo sapiens

<400> 101
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 tccatgaaga agcacataat tcaaattatt gaagttttatc ccttctaata accacataga 120
 tttctcttgc ccattataaa aattagataa tcagtatttc taggatagtt gttttcttcc 180
 aaccaattaa ggcataatct atgtagcaga acattcagag gatgatgcct ggtcaacatt 240
 tgaataaaca atcactgt 258

<210> 102
 <211> 712
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (603)
 <223> a, c, g or t

<400> 102
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 tccatgaaga agcacataat tcaaattatt gaagttttatc ccttctaata accacataga 120
 tttctcttgc ccattataaa aattagataa tcagtatttc taggatagtt gttttcttcc 180
 aaccaattaa ggcataatct atgtagcaga acattcagag gatgatgcct ggtcaacatt 240
 tgaataaaca atcactgtga tgttacctct atttaagatg actccaataa aacttctatg 300
 gtttgcatta ttagttgtac agactttaag cattatcttt tgaatagggtc aagggaacctg 360
 tcttaactcc ccatctctga ccaaaatata cttgttttct ataagctata aagccagata 420
 gccaatttta tgagaattgt cctatacta tatccatgtg agcgatgagt gcctggcatg 480
 aagatgcata aaggaggcag taatatacaa caactgaagc ataacctctg gagccagtct 540
 tcttcagaca aatcccaatt ccattactca ctggccacct aaacaagcta ctttaattcat 600

ctnccctcagt tttcttcaac tgtttaatgg gtatgatcaa caaaccaact tcagtgggtt 660
atcataata ttaataaatg agagaatgca tgtgaacaa agctataagc aa 712

<210> 103
<211> 173
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (96)
<223> a, c, g or t

<220>
<221> unsure
<222> (140)
<223> a, c, g or t

<400> 103
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tgggtgattag gcatgtggtg tggcagtgtg gctggngggg acgagcatgg ctggtgggta 120
agaacgtggc tggggagtagn agcatggccg gtggttggga atgtggctag tga 173

<210> 104
<211> 688
<212> DNA
<213> Homo sapiens

<400> 104
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cgttgtcttc ttctcttcac caccacccag gagctcagag atctaagctg ctttccatct 180
ttctctccag cccacaggaca ctgactctgt acaggatggg gccgctctct tgccctcttc 240
tcactctaata cccctctctc cagctgatca acctggggag tactcagtg tccttagact 300
cgttatgga taagaagatc aaggatgttc tcaacagctc agagtacagt ccctctccta 360
taagcaagaa gctctcgtgt gctagtgtca aaagccaagg cagaccgtcc tcctgccctg 420
ctgggatggc tgtcaactggc tgtgcttctg gctatggctg tggttogtgg gatgttcagc 480
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acctgacctg acagggagga ggctgagaac tcagttttgt gaccatgaca gtaatgaaac 600
cagggctcca accaagaaat ctaactcaaa cgtccactt catttggtcc attcctgatt 660
cttgggtaat aaagacaaac tttgtaaa 688

<210> 105
<211> 977
<212> DNA

<213> Homo sapiens

<400> 105

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cacctatgtg cagagtcagc atgtcctgcc tcccctggta atgtggcgcc ctgcaatctct 120
gtggccagcg ctctcgttca tcattcagtc tgatggcttg agtgcccteta tgtttgctac 180
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tatatagtga cctttgctgc atccactagt atacaccatc tgaggtctct tgaactgaaa 360
atgaatgtgg aagcaaggga acagtgtgat gttcagctct cagatctcac atggcatctg 420
atttggtctg aggtgctctc cctcctctct gtcccctggc tgtgggctca tggattggca 480
gagcccagtt atggcttccg ttttacttgc tataatatcc agaggcaatg tactagtcta 540
cctagaaaat tgtgctcacg gcattccctt gtacattaa taaggattat ggacactacg 600
acattttatt aagtattttg ttctgggtatc tacttgatta tagtaaatta tcaaatctct 660
tatttagctc atggactctc attaaagcat gttctggaaa ccttggccat aggttaggag 720
cctgtaaaagt ttgattcatt gcaagatata agtgattagc agtgggtagt agtgacattg 780
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actcctctca tctccccacg ccttagccat gtctccctga ggttcatact gtttgggaatt 960
tcacaggctc atttacc 977

<210> 106

<211> 500

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (357)

<223> a, c, g or t

<220>

<221> unsure

<222> (367)

<223> a, c, g or t

<220>

<221> unsure

<222> (391)

<223> a, c, g or t

<220>

<221> unsure

<222> (410)

<223> a, c, g or t

<220>

<221> unsure
 <222> (430)
 <223> a, c, g or t

<400> 106
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 ggttccacct ctgccaaagg cacacctagg agaactcctca tgtccagctg agaagagggg 120
 gacacctcct gtctgagact gcagctcaca ctgctgcatg cttcctggac accatctctc 180
 tgaccttggt cgcatctgcc tagcctgcag ctacgtttctc tgacotccag ctcttctctc 240
 ttctccctcc ggtaataacca aagtctcaag aacacagccc tcacttctag acagaaaggc 300
 ctcaccagga cccacctgtg tggcccagggt gtgacctcat gtacaaacac atctccnaaa 360
 atcacntct cgctcatcatg gaccctagta ntatccatga gttaaenctn atttctgtgt 420
 taatcggggn tgcagacat tttggtgcag attcattgtg gctttgggggt gccatttggg 480
 actctccccc atgcacaatg 500

<210> 107
 <211> 476
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (466)
 <223> a, c, g or t

<400> 107
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 tagacactgg agccgatctt cttgagttcc aatagtggct cttctacttt ttaaatctca 120
 ttttcttcca tctttaaatt gaagatagta acaatctcat ggggttgtga taactaaggg 180
 ggtaatgcat gtaaagtgtc tagaaaatgc ctggacatag gaagctctaa gtttgctgct 240
 actactgtta ttatgggttac tattattaat cattgcaagg aaaatgtatc aacagatgaa 300
 tttggttcaa tactgccttc tagttttgtg accttagaat ttataggaac aaaaaagatt 360
 tgaagggagg ttgggctgga tcatagagag ccttgattcc atgttttagg atgtatacac 420
 agtgagaagt ccttcagggt ttggtcctgg gaagagttgt gaatcngaaa gttaac 476

<210> 108
 <211> 834
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (824)
 <223> a, c, g or t

<400> 108

ataagtatgc atgcttcata tacttcattt attctttctt ccttgaagcc tctcctcttt 60
 attaggcact attcattttg ctacttggtt cctgtatttt tttaatgtca ctattttgac 120
 agtaccataa aaggtaaagc cactcaatta cgcagggtcc tctctttatg ctttgggtag 180
 gtgcacctgt gcaactgagg ggacggtcag tgttatcaag gttacctgtt attacaagta 240
 gaagaaccca caaagatcag gagagagctc attttcctcc attagtagga ggtaggacta 300
 tacattcaca aacacgaacc ttaaaatagc tcacaaaata gtgcataca tgtaccagc 360
 catctttcca ctcatctctt ctcaaaagga atgtagtacc atatagtagt taagaatata 420
 gacactggag ccgactctct tgagtcccaa tagtggtctt tctacttttt aaatctcatt 480
 ttctctcatc tttaaattga agatagtaac aatctcatgg ggttgtgata actaaggggg 540
 taatgcatgt aaagtgccta gaaaaatgct ggacatagga agctctaagt ttgctgctac 600
 tactgttatt atggttacta ttattaatca ttgcaaggaa aatgtatcaa cagatgaatt 660
 tgggtcaata ctgccttcta gttttgtgac cttagaattt ataggaacaa aaaagatttg 720
 aagggagggtt gggctggatc atagagagcc ttgattccat gttttaggat gtatacacag 780
 tgagaagtcc ttcagggtttt ggtcctggga agagttgtga atcngaaagt taac 834

<210> 109
 <211> 498
 <212> DNA
 <213> Homo sapiens

<400> 109
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 aaaaaataact cttttccctt tctctggaca cctaaatcta agagaacaac tcctatataa 120
 aaatgatata aaaatcatac attttggaag tatgtttcta actgttctga gaggctgcat 180
 ggtaaagctg aagtgaagaa tgtattttta atctgtatat atgagcaagt atatattgat 240
 gattgaagct aggtgctgcc taaatacatg gcccgacttt tgaggaatta tagtgtaattg 300
 gctgggaata caggttttga gtcacaccgt agagctgaaa gcttggtctt tatttagctg 360
 tgggtccttg ggcaggatc gtaaatctgtc tgtgctgtgaa ataccacca caccatcct 420
 gtaattgggg gataataagc ctgcctatct catggggcta ttaagaattt tcagttaat 480
 tttacttatg aagtgtcta 498

<210> 110
 <211> 259
 <212> DNA
 <213> Homo sapiens

<400> 110
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 ggaggggagc agggagggtt ttcttttttt ctttataaca ctggctaatt attttaatta 120
 ctgctataga aggaagaagc taaaagtatt gcattcacaa atattgcata gattatacaa 180
 acacagaagt atatgcatat gcatgtttta aatatatgcc acatatcaac accatgtatc 240
 caacttgaat aaggtcatt 259

<210> 111
 <211> 414

<212> DNA
<213> Homo sapiens

<400> 111
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gacatatcac ttgcctcatt aacatcaagc atcccaaac ccagtcctggg tcagttttgc 120
ccagagtggg gttttagtaa cacgggttct cctgggatcc tatacctagc ccagaatcag 180
ttgcaaaagc caggccatag caaattgtcc tgccagccag atagcagaga atctgacggc 240
agcaggcaga aggagcgcct ccattgcagt aagccaagat cgcgccactt gcctcattac 300
atcaagcctc ccaaaaccca gtctgggtca gttttgccca gagtgaggtt tgtagaacac 360
gggttctctc gggatctata cctagcccag aatcagttcc aaaagtccea aaga 414

<210> 112
<211> 589
<212> DNA
<213> Homo sapiens

<400> 112
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gtgaaggacc caggaagatc agacactggg ggtcaaaaga caagggtagg agtgtcatca 120
aatgatagtg ttggcagcat gggagctgtg ggtagagagt gagatacctt aatttatgat 180
ttctgggtgg cagtaacttc taggggtgtg ctgtgggagt gggcctctga atgggggtgga 240
gggaaaaatc attaaagatt agaaaatctt gggattttaga gगतगगgtt tgggatgggt 300
gatacacgtt agtgttgcatt ttgccacagg taacgccaaag agttggcaga gaaaaataa 360
ctgacctaga ctttaataaa ggattttgga atgacagaga agcaacagta aaaataaggg 420
ataattagat gttttgggtgt ttgcgcctggc tgtgtctgtc ctgtgtctgg ccaattatta 480
caatgtattt acactgtata tacatgtaat tcataataa gttttataag tagcaaaatg 540
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<210> 113
<211> 471
<212> DNA
<213> Homo sapiens

<400> 113
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ggacagtgga ctcggtcaca tccaggatgg tgatcaacag ctgcatcacc ccgcttcctt 120
ctcaagcgac aattccagag ccttggccac acggtgcttg tatctttcgt attcagaccc 180
cctgggggtc cagccccctt ctgccttca tttcctctca ccccttgact catctttcct 240
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attcataaag gcagctgtgga ctgcttgcgt atgttatcgt gaacctgaat tccttcttag 420
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<210> 114

<211> 1032
 <212> DNA
 <213> Homo sapiens

<400> 114
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 gccaagggtcc tccccatgcc aaacctcagg cccttatctt ggtatctgtc accaccacc 180
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 cagctgcatc atccccgttc cttctcaagc gacaattcca gagccttggc cacacggtgc 480
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 tatggagagg ttagagcacc agcttcagaa ccacctgtg actttggcct agtcacctga 660
 catttctaga ctttgggtgc ttcatccta aaggcagtg ggactgctg ctgatgttat 720
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 aaattaagag tgggttgagt aggcattggt gccctgcct atagtccag ctacttgaaa 960
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 tctttaaaaa aa 1032

<210> 115
 <211> 440
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (428)
 <223> a, c, g or t

<400> 115
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 actgtctctt tttgattcca ttgctgtctt agttaatggc accaccatcc atactgttac 180
 tttagccaga aacctttgaa acatcccaat tggctcttct gattttctct gtttcacaac 240
 ttattctcca cagacaggat actccaaca gtacccaaag ccattgtctc ttatactttt 300
 caatctataa aatatacata cataagagta tataaaatat attataaagt aaatatccat 360
 gtatccaaac acacagggtt agaactggga acacaatatg caaagaata atattgggag 420
 cccctancc tcatgtcata 440

<210> 116
 <211> 249

<212> DNA
<213> Homo sapiens

<400> 116
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 attttgtttt caaatctttt taattccctg aagcaaatat tttaagacca gttgcaaaat 120
 gctgcttttag aaataattca tataaacatg cttctctatt taatcacaaag gggagatgtg 180
 gagaatggat gttttatttt ttcagtagtt tttgctctat aaaaatatta aattgctatt 240
 atgattact 249

<210> 117
 <211> 1017
 <212> DNA
 <213> Homo sapiens

<400> 117
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 ctgatgaag tgctccagat gtgtctgcat gacttgggga cactaagaaa accaaagga 180
 tttagcaaca agagagcttg tcacctttgt gcggaaccag ctggcatctc acagggacaa 240
 cctacaacct gagctgctgc gtccctcacta aatctgggcc cctagggacc ccgttttact 300
 cctgctctcc tggagcttat tacggggcctg gctaccaaaag ggaagagggg gaaaatagac 360
 caggagcctt atgctagaac cattttatttt gtttcacgtg atgcagacag agataaaaact 420
 gcaaatttaa tgaaacttta acaatcagta caatgtttct ccttaagaac tttgtaaata 480
 gcatttatct ttcaagagtt ctttctctct tttgtgtatt attttataaa cttaaaggaa 540
 aaagagaaaa agtcagtggt tccagcattt gctttagctt gtgacttaaa tggattataa 600
 ctcttgaccg ctgacattta ccaagataaa tcagtggtca tagatgtgga gcttgatgtc 660
 tcttcggctc tggggaccaat ccccttgacc aaaagtttct ctgtgttctt agtattctga 720
 actggctaca gcaactttta ggaaaataaa ggtttacaaa aaagtcttga caatttgttt 780
 gcttttacct tttcaatttt gtgaaatgta gagataattt tgttttcaaa tctttgtaat 840
 tccctgaagc aaatactttc aagccagttg caaaatgctg ctttagaaat aattcatata 900
 aacatgcttc tctatttaac cacaagggga gatgtggaga atggatgttt tattttttca 960
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<210> 118
 <211> 332
 <212> DNA
 <213> Homo sapiens

<400> 118
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 actcaggact gtttaagagc caaggtcctg gccactgaaa taaaactctc gcaactggca 180
 gattaatgaa aggcctctaga aggaaacaaa aaacccaaga gactgctggc agtगतatgt 240
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 aatctacagt atttacattt tcaaaacaaa at 332

<210> 119
 <211> 344
 <212> DNA
 <213> Homo sapiens

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 aattctggtg aacactgatt ttatgtctcc attcttgagg acactgttag tttgttttca 180
 tctgtatgcc ttgattagag caaataacct taaatatcct taaggaaact tagatatata 240
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<210> 120
 <211> 718
 <212> DNA
 <213> Homo sapiens

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 ttctatacct ttgtcagtaa cctcttagtg atgaaataaa aaagattagg taatcatcca 180
 gcaatgggga agaagttaag gaacaaagag ctacagattaa actagttttt agaacttaag 240
 cattttctgca tgaatttgaa tcatggaaaa caaaatgtag cactccaaca ttgtatgcaa 300
 aactaaaagt ggaatactgc tttgatattt gaatgaattg aaaaataatt aacatccttg 360
 gaactgtgat taaagaagga cttcacaaagt attatagata cccccaacct cagccctttt 420
 cccatgtatc tctttgatca catccctacc tcatagatca cccatgtgct gaagactttc 480
 agttctgtat cttcattcta gatctcctga actcaagatc agaatatctt tctgacttct 540
 gactgtgat tcttggaagt tatacaagaa cctcagctca aactcagtat tccctaaacc 600
 attgtttttg aaactttatg ttggatgtga aatctgtatt gtagaataac atttaaaaaa 660
 gaaagaatag tatgcaaaat atcagagtgc attgtatgta gcaagagtag gtattttc 718

<210> 121
 <211> 2617
 <212> DNA
 <213> Homo sapiens

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 acacagtgga atgctcttca ccataaaaaa ttacagggaat catgtcattg cagcaacatg 120
 gtggacaatg taagaaaagc tcccgggaga agctgtacag aagctgcctc ctcagcagtc 180
 agggccaggt accggagctg tttttaccac aggacagggc cggccccaag tcatccaga 240
 gctgccatgg caccctctca gtcgggtcct gaggaatcct acacaagcta cttatatcag 300
 tgatcactag gataatccat agaacttttg ggaaagaagt ttaagacctt tctcccacca 360

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tttcagcagg ataaattcca actggattag aaaaatgaaat gtaataatg caaataagta 420
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gactttctaa gcataaaggc aaaaaaaagt cataaaaaatg ctatagcagt ttgagactct 540
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caatggtgccc tgtttccctt tctttgaaaa tctctggaga aatagtttct cttgctgtgt 660
ctttctttag gcaagaattt ttactaattg atgtgtagtc tgaatcctgg ctaagtataa 720
acottttatt ttttatacct gttcttagtg aaaaatgaaac tgtgactttt tttttaattc 780
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- <210> 122
- <211> 373
- <212> DNA
- <213> Homo sapiens
- <220>
- <221> unsure
- <222> (74)..(294)

<223> a, c, g or t

<400> 122

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
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caattacctt ggg                                     373
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<210> 123

<211> 308

<212> DNA

<213> Homo sapiens

<400> 123

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cctgtctc                                     308
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<210> 124

<211> 774

<212> DNA

<213> Homo sapiens

<400> 124

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gttcccgaa ggcctcggga aagtgtggtg atgcaaacag caggcagcca gagagcctgc 180
tgacagaggag accagagacg atgccccagg agggcacaga agtgtgcaaa agactcagca 240
gtgggaagga gcctgggtccg tgagtgtgag gagataaccc gggccctagg cccttctctg 300
cccaactttc caccacctgg cccagccctc tgcagcgggt aggccttagca tctctctgtc 360
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aggggtgggc gcctccctcc aggtacccaa gaggaatgt tagcagctga aagccccaga 480
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cccacaacca caaagctatg tctactttca tcagaaggag ctcccctaagt ggggaagggt 720
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<210> 125

<211> 271
 <212> DNA
 <213> Homo sapiens

<400> 125
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 ctgtagtggg ctctctcaaga tacttctagc catgctctgt ttgtgcacgc ttatccctgc 180
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 ttgaaaaatt catttaaggt ggagaacat a 271

<210> 126
 <211> 1950
 <212> DNA
 <213> Homo sapiens

<400> 126
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 gccagtcctt gcattggcat ctgcagattt gaagaagtag gccctcttc tagtcttcat 180
 ggactggatt tggcaagaaa agtccttcat cagtgcagcca ttcagaaact ctgggaagcc 240
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 cagacagcct tcaacttcag catcttcaga gctctgcttg acttcaagc tgaggccatg 360
 gaattctcag gagctctcag ccaatggctg agaacaacgt gtctaacaca tgttctcttt 420
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 ccacagcgac cccaagaagc tgctccaacc cctgggacta tggagctcta cagctgtaga 600
 gaccaccagg aagtggactg caggccctcg gcctctccat tcagattctg caaagagatc 660
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tgtagtgggc tcctcaagat acttctagcc atgctctggt tgtgcatgct tatccctgca 1860
 cagacagcag aagctgtctt ggccaacaag accaggaagc attggtattt gcagggttaat 1920
 tgaaaaattc atttaagggtg gagaaccata 1950

<210> 127
 <211> 209
 <212> DNA
 <213> Homo sapiens

<400> 127
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 tttattattg agaatagtgc ttgttctctg agtactctg acttagaaaa ggagcatagc 120
 cctactaaag gggacttcaa agtagaaatc gtcaataacc ttttacttgc tacagttagt 180
 ggctctcaaca tgatgttttt aaagatcct 209

<210> 128
 <211> 496
 <212> DNA
 <213> Homo sapiens

<400> 128
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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntttttac acttttaaaa 420
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 taaccccgaga ttcata 496

<210> 129
 <211> 252
 <212> DNA
 <213> Homo sapiens

<400> 129
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 aaaaaaatcc ctccagaca aaataaatca gtgttttata tttttggagc atcagaactt 180
 actttaagac ctactggta attcttttag ctctcacatg tgataaagac attgtgctta 240
 cattttttta aa 252

<210> 130

<211> 149
 <212> DNA
 <213> Homo sapiens

<400> 130
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 gcaacacagg gagacctctt ctctacaaa 149

<210> 131
 <211> 390
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (217) .. (273)
 <223> a, c, g or t

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 atagaaatta ctagggttgt cttgggtgtg gcctcaacct gttcaacaac aggtgtgctg 180
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<210> 132
 <211> 1079
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (874)
 <223> a, c, g or t

<220>
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 <222> (879)
 <223> a, c, g or t

<220>
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<223> a, c, g or t

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<222> (887)

<223> a, c, g or t

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<221> unsure

<222> (890)

<223> a, c, g or t

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<221> unsure

<222> (894)

<223> a, c, g or t

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<222> (921)

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<222> (924)

<223> a, c, g or t

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<221> unsure

<222> (926)

<223> a, c, g or t

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<221> unsure

<222> (931)

<223> a, c, g or t

<220>

<221> unsure
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<223> a, c, g or t

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<222> (993)
<223> a, c, g or t

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<222> (995)
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<220>
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<223> a, c, g or t

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<220>
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 <222> (1050)
 <223> a, c, g or t

<220>
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 <222> (1061)
 <223> a, c, g or t

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 aagatctagg agttattctt aggttttctt ttacccctcc cacatggatc catcagcagg 360
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<210> 133
 <211> 303
 <212> DNA
 <213> Homo sapiens

<220>

<221> unsure
 <222> (295)
 <223> a, c, g or t

<400> 133
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 caaccaggga tttaaaaaat ggtttctggt gtccaggtaa gtttgcatata aaccaaata 180
 aaactgttta atactgggcc cactacatta atctatgggt ctaaacacgt ctgtgaaccg 240
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 ggg 303

<210> 134
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 134
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 gagatcacat ttgcaaat ttacattgttta atactatagc ctcaaaataa attgcatata 180
 aatttttaaa cctattggaga aattgacaaa tccaccaaca ctgtgggaaa tttttaatat 240
 atactcttta gctattaatg cataaagtag gtaaggaaaa ccaataggat gcaataaatt 300
 tgaacaataa aatcaacaac ttgtgatttag ttgatataca tatacagaca ctgtcattta 360
 gtaattggaa aatatacatt attttccaac acacacaaaa aaacacttgc aaaaatgggc 420
 tgtgtcttaa atttttcaaa gaactgatat catacagaac acatgttatg accataatgt 480
 agttacatta gaaaatgtgg cagggtattct gattctcctt tctgtgctag ggcatacagt 540
 taatatc 546

<210> 135
 <211> 590
 <212> DNA
 <213> Homo sapiens

<400> 135
 aaaaaagtaa tatgaccata attaatatca gtcaaaatat tctttaaagg aaaaaaatc 60
 taataagaga actctataaa aataaagaa ataataaaaa gagatcacat ttgcaaat 120
 acattgttta atactatagc ctcaaaataa attgcatata aatttttaaa cctattggaga 180
 aattgacaaa tccaccaaca ctgtgggaaa tttttaatat atactcttta gctattaatg 240
 cataaagtag gtaaggaaaa ccaataggat gcaataaatt tgaacaataa aatcaacaac 300
 ttgtgatttag ttgatataca tatacagaca ctgtcattta gtaattggaa aatatacatt 360
 attttccaac acacacaaaa aaacacttgc aaaaatgggc tgtgtcttaa atttttcaaa 420
 gaactgatat catacagaac acatgttatg accataatgt agttacatta gaaaatgtgg 480
 cagggtattct gattctcctt tctgtgctag ggcatacagt taaatcacat tttcaccttc 540
 ctgtgattta tgagacttag ctctgtcctt atgaatgtgg gcagaagtga 590

<210> 136
 <211> 165
 <212> DNA
 <213> Homo sapiens

<400> 136
 gctcagggcc tggcatctga gttcttctgt tcaggagaaa cactttcagc aggccattga 60
 gaggggtcatc ggagggtgagc ctggggagccc ttaggggaggg aggggtgttt gcagctctgg 120
 gcctggcagg ctcacccctt gggcccagtt tcaattctgc atgca 165

<210> 137
 <211> 172
 <212> DNA
 <213> Homo sapiens

<400> 137
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 atagaaaaaa ttccacattt tttcttacag tgctcattca tcagaacctt tt 172

<210> 138
 <211> 809
 <212> DNA
 <213> Homo sapiens

<400> 138
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 tatatgtcct ggggtgccctg tggctgtgat tttttaaggg aaattaactt attttaaaata 180
 aaataaactt aatttaaaat aaaattttgt tatctaaagc caaatagaaa aaattccaca 240
 ttttttctta cagtgtcat tcatcagaac cttttttttt tcttcttatt ttttcttttt 300
 ttggggagaa tgggtccctcc ctttgggtgc catcaggggg aataagaggt acaaacaggc 360
 ggtgattata cgctcacttg ggagtttgga aactccgggg gcacattgg gattccatt 420
 ttgtcctcaa gcctccggag tagctaggac atacgggttt tgcaccacaa ggccgggata 480
 aatttcaaaa tttttctcac gagacaaagt ttgggattct tggccccagg attgggacgg 540
 ggtatatcac aaaagaaact atttcagggg cgcttagaga ggctcaagt acacctactt 600
 atcagggggt tccagtgagg agaactgtac cctaccctta ctacctttta agtggtgcct 660
 ctccctccac ctttaacett tacacattac ggaactggcg ctatcatatt aaagtcaact 720
 aacctggact ttggacttct ttaacacttc agctccggga tccaaactaa aatcttaggc 780
 aaggcctaata ggacggtaga agtctacgc 809

<210> 139
 <211> 294
 <212> DNA

<213> Homo sapiens

<400> 139

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gtcttttttca ttcataagtaa ccttgcaaaa caaacatata gaacagagac attatggaga 60
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ggaaatgcga agaaaaagat tgggaatcag aacagcagaa aggtattttt ggaaggggtaa 180
tttactgatt tttcgtttta aattgttgac attgccttcg ccggtggaaa tgaattactt 240
atgtgaatct ggcaggaaca caatttttaa aattagaaaa ttagtctccc ttat 294
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<210> 140

<211> 1056

<212> DNA

<213> Homo sapiens

<400> 140

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acctaaacac attttaatta tattttgttc atttttggag aaccattccc ctttgacatc 60
tattatgaac attctaaaac ttaaatattgt gaaaacaaaa ctctggggaga tagattgtta 120
ttttattcca tgagggaaggt gttaaaccag ctttgcagtt tgaattttat tcttaaaaggc 180
ctgcagttc ttacctggat gtcgaaatga tttttaattt caactgtgtg agacctcatc 240
ctgtgggaac tagaaataat gtccaactgc cgtccagttc ggcgacattc cagccgttcc 300
ccccccccc gataacgggc tgactcttcc tcaattcatg acagcccatc ctacacataa 360
cctttctctc ctggcaccgg tcctcccagc agagagggat cctgcccttc ccttcccact 420
ctccagcata cagaccagca ggaagccaca agagggaaaa acaaaagcct tctgtataag 480
gcctatgaaa ggaccatggg ccagcctcag aatctgctgc ccctacaaac cagtattcct 540
caaatgatag ttccacattt acttaataag gaggactaat tttctaattt taaaaattgt 600
gttcctgccg gattcacata agtaattcat ttccaccggc gaaggcaatg tcaacaattt 660
aaaacgaaaa atcagtaaat taccttcca aaaatacctt tctgctgttc tgattcccaa 720
tctttttctt gcaatttctt gaaccagaga tggtatcggg acttacatac ataatcaata 780
cataaaatca atcctcaaag ctccataatg tctctgttct atatgtttgt ttgcaggggt 840
tactatgaat gaaaagaca atttcatgaa tgcagaaaat ctggggatcg tgtttgggcc 900
cactctgatg agggccccct aggacagcac cctgaccacc ctgcatgata tgcggtacca 960
aaagctgatt gtgcagattt taatagaaaa cgaagacggt ttatttcaat ccatacagga 1020
aatgagctga atggccccag caccatccaa gttgac 1056
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<210> 141

<211> 968

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (319)

<223> a, c, g or t

<220>

<221> unsure

<222> (497)
 <223> a, c, g or t

<400> 141
 acgagatgtc ccagtaacct aaaattatcc agtcgggtctt ctactcttac aactaagaaa 60
 aataaggctt agaaagaggg attgccagaa accttggcag ctggattgcc tgtgcttggt 120
 cctctaagcc atacctaaat ctgcagtaa atacttaact ttttaaatagg gaaattgctt 180
 caagataact tgaccagtga tacggtaaaa taattagact attggactaa tgggttaaca 240
 caagtggctt taaaaagctt gcttaaaaaa caatttttat tttagaaaaa tagaaaaata 300
 aaaaacatctt caaaatttmg gagcctgaag gggctgtttt ttctcatat ggaatactct 360
 tgaaaaggca agtcctgtat gtatttttca ttgtgtgaaa gaagattggg tatcagtagg 420
 ctgtcaaca taatttgcct ttaagttctt tcaaggtttt atgcaataaa acctattgat 480
 ttgggaacttt aaaaaanaaa acaacaaaaa aatactttca gggtttttga atttcaagtg 540
 gttttttaag gggagcaata gtttgccatt taccaaaggc ttctccagat aatttcttaa 600
 atgtttctac ttaaaaaataa aagctattaa taataagctg tcattgggac catttgaaga 660
 caggggaaat agaaaaattt tattgtaaa ggaagaactt atccttttaa ttttatggac 720
 taacagagtc tgcaggctct aactcatttc agcctgtcaa atgtgcaatt aaaaatgaat 780
 tttctaatgt tattcaaatg aggcctctata gtgaatacag aatcacctct ctaagttttt 840
 tcccagtgaa tttgttttaa agtggtgtac tctcttgcaa gaacgtttaa aagttaagtc 900
 ttgtaactgt taacatctaa tgtattaata taagccattt gttttttacc atttttttaa 960
 ggccgtat 968

<210> 142
 <211> 1466
 <212> DNA
 <213> Homo sapiens

<400> 142
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 agaaatcaaa caactggaaat agctgttttga tatcacttaa aagtgtataa atttttaagtt 120
 gaatctggtc agtttgcaat ggcctatttg taagaaatat caagacttct tgagaaaaat 180
 gaaaagtga taacataaatg cttaaaaatc ggtactcttg agttaagggt ttgctctttg 240
 agcttaatcc aatttgggat gatttttcat cctagggtct ttgtttttcc ttttttattt 300
 ttattttttc ttttttttag ggaaggggac ttgctttctt ttccaaaaag gtgaactctt 360
 ctgtaggagc ataggtaaaa aaaaacaaagc tgaaatatat gttttgaata tagatagcta 420
 attccctggg atataatatc ctttcaattt tttttttttt ttggggccag tctgcctttg 480
 gatgtttcaa aagctgtgac gagatgtccc agtaacctaa aattatccag tcgggtctctt 540
 tactttacaa cttagaataa taaggcttag aaagagggat tgccagaaac ttgggcagct 600
 ggattgcctg tgcctgttcc tctaagccat acctaaattc tgcagtaaat acttaacttt 660
 ttaattaggga aattgcttca agataacttg accagtata cggtaaaaaa attagactat 720
 tggactaatg gtttaacaca agtggcttta aaaagtctgc tttaaaaaaa atttttattt 780
 agaaaaata gaaaaataaa aacatcttca aaatttagga gcctgaaggg gctgtttgtt 840
 tcatatattg ataactcttg aaaaggcaag tcctgtatgt atttttctt tgttgaaga 900
 agattggtta tcagtaggct tgcaaacata atttgccttt aagttctttc aagtttttat 960
 gcaataaaac ctattgattt ggaactttta aaaaaaaac aacaaaaaa tactttcagg 1020
 gttttgtaat ttcaagtggt tttttaaggg gagcaatagt ttgccattta ccaaggctt 1080
 ctccagataa tttcttaatt gtttctactt aaaaataaaa gctattaata ataagctgtc 1140

atgggatcca tttgaagaca gggaaaatag aaaattttta ttgtaaaggg aagaacttat 1200
 ccttttaatt ttaggacta acagagctctg caggctcttaa ctcatttcag cctgtcaaat 1260
 gtgcaattaa aaatgaattt tctaattgta ttcaaatgag gctctatagt gaatacagaa 1320
 tcactcttct aagtttttct ccagtttaatt tgtttaaaag tggtgtactc tcttgcaaga 1380
 acgtttaaaa gttaagtctt gtaactgtta acatctaatg tattaatata agccatttgt 1440
 tttttaccat ttttttaagg ccgtat 1466

<210> 143
 <211> 306
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (289)
 <223> a, c, g or t

<400> 143
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 gtctctgtgat gtgaacctgg ctatcttcaa ttcacaggat agggagtaag acatttcatt 180
 ttggccttag gtccaagcca tcttcttcaa tgtagctact actagagagc ccacaatgaa 240
 gccataaatt ggctcccatc ttggcaattt gtgtcccttt cagaaagang aagggttagt 300
 aatcac 306

<210> 144
 <211> 494
 <212> DNA
 <213> Homo sapiens

<400> 144
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 gtctctgtgat gtgaacctgg ctatcttcaa ttcacaggat agggagtaag acatttcatt 180
 ttggccttag gtccaagcca tcttcttcaa tgtagctact actagagagc ccacaatgaa 240
 gccataaatt ggctcccatc ttggcaattt gtgtcccttt tcagaaagag gaagggttag 300
 taatcagcac tttaagtac cagcatgcag cattaacaag ttctcaaggc ctgcaagcca 360
 tagggtttct gtcttcctct tattggcctt gtaatctctg accatgatta gggtaagagt 420
 taagagactc ccaggacagg aaacggaaaa catcagattg tgtatggaat gaacctctct 480
 ggctggatgt ggtg 494

<210> 145
 <211> 174
 <212> DNA
 <213> Homo sapiens

<400> 145
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 atgtcacctt ctttttagctt gcattccctt tataggaagg ccatttttagg agtcctgggg 120
 cattttgact caacttctta aatcatttat tctattcaca aaaggtttat tgaa 174

<210> 146
 <211> 445
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (371)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (391)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (406)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (427)
 <223> a, c, g or t

<400> 146
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 tggccatagg aaccgcgtga tccatcttct atcacttttag attgaatttg tctttctac 180
 tgttttatat aaagaaatta cctcctttaa gtccctatcaa attcctgac acccttaaaa 240
 aacaattttt aggtattacc ataaaacctt ccatgacatt ctctgcttta tcttctctgt 300
 gctactttgt ccattcattg ttgcattgta atgtatttct gtacatgta tatcactaaa 360
 ctgtctctct nttgaaggga gggacatgtg ntcacatct atttcaagg cttatacaga 420
 aactganaca tagtagatgc ttact 445

<210> 147
 <211> 734
 <212> DNA
 <213> Homo sapiens

<400> 147
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 ttttcatcac ttcagtgtct ctctgtatatt ccttcccagc taacctcatga tccccaaccc 120
 tggccatagg aaccgcgtga tccatcttct atcacttttag attgaatttg tctttctctac 180
 tgttttatat aaagaaatta cctccttttaa gtccatcaa attcctgac acccttaaaa 240
 aacaattttt aggtattacc ataaaaacct ccatgacatt ctctgcttta tcttctctgt 300
 gctactttgt ccattcattg ttgcattgta atgtatttct gtacatgtta tatcactaaa 360
 ctgtctctct cttgaaggga gggacatgtg ttcactcatc tattttcaag gcttattaca 420
 gaaactgaaa catagtagat gcttacttgg gaatatata tctcaaaaata gaaaaacacc 480
 cagcaaatcg catcttatat tagtcttttag aattagtatc aaagcctaata tattatgaca 540
 cttgaaacat taaataacct agaaaaacaaa gacttaaaag ttttatgata aagccagaaa 600
 cttttttatac tgaccatttt taaataactga catttcagat taattggggg cagatgatata 660
 atgaaattat agttttatact gtgacttctt aatacttcag ttgtgttaga taaactgata 720
 gttcgtcaca tttt 734

<210> 148
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 148
 Met Leu Lys Ile Ile Asp Lys Leu Tyr Phe Ser Tyr Leu His Ser Ala
 1 5 10 15
 Asp Ile Leu Cys Asn Thr Glu Ser Tyr Thr Leu Ser Met
 20 25

<210> 149
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 149
 Met Gly Trp His Glu Ile Gln Ile Pro Val Leu Ile Phe Leu Leu Ala
 1 5 10 15
 Val Tyr His Arg Thr Ser His Phe Thr Ser Leu Pro Leu Gly Pro Gln
 20 25 30
 Phe Ser Val Phe Leu Ile Tyr Lys Tyr Ser His Pro Ala Phe Arg Gln
 35 40 45
 Val Leu Arg Leu Asn Lys Glu Phe Asn Leu Leu Trp Leu His Ile Lys
 50 55 60
 His Ile Leu Val Ser Val Cys Leu Val Ile Ser Asn Ala Asn Ile Leu

65

70

75

80

Ser Ala Pro Cys Pro Glu Cys
85

<210> 150

<211> 45

<212> PRT

<213> Homo sapiens

<400> 150

Ser Ser Val Ala Leu Ala Leu Gly Ala Leu Thr Val Trp His Ala Val
1 5 10 15

Leu Ile Ser Arg Gly Glu Thr Ser Ile Glu Arg His Ile Asn Lys Lys
20 25 30

Glu Arg Arg Arg Leu Gln Ala Lys Gly Arg Val Ser Arg
35 40 45

<210> 151

<211> 152

<212> PRT

<213> Homo sapiens

<400> 151

Met Val Pro Glu Val Leu Ile Leu Cys His Gly Leu Ala Val Trp Lys
1 5 10 15

Trp Phe Pro Gly Leu Ala Val Leu Arg Ile Pro Gly Cys Val Thr Gly
20 25 30

Asn Lys Pro Phe Asn Leu Pro Gly Thr Val Phe Phe Cys Lys Met Arg
35 40 45

Gly Leu Gly Ala Ser Phe Leu Arg Pro Trp Gly Leu Val Ala Glu Phe
50 55 60

Ile Ser Pro Thr Pro Cys Pro Ser Ser Tyr Gly Ser Thr His Lys Ala
65 70 75 80

Phe His Ser His Lys Glu Lys Ala His Lys Val Pro Gln Pro Pro His
85 90 95

Thr Gln Glu Pro His Leu His Pro Ser Leu Lys Ala Arg Leu Pro Leu
100 105 110

Pro Gln His Thr Gln Val Leu Leu Gly Leu Pro Ala Leu Phe Ser Ser
115 120 125

Ser Pro Glu Trp Asn Gly Pro Ala Met Ala Ser Gln Arg Thr Ala Ser
130 135 140

Trp Gln Ser Trp Glu Trp Val Glu
145 150

<210> 152

<211> 29

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (14)

<220>

<221> UNSURE

<222> (21)

<400> 152

Met Gly Leu Arg Val Leu Leu Leu Gly Leu Ser Leu Xaa Met Ser
1 5 10 15

Gln Lys Pro Leu Xaa Gln Arg Pro Thr Ala Leu Gly Pro
20 25

<210> 153

<211> 46

<212> PRT

<213> Homo sapiens

<400> 153

Met Phe Leu Val Glu His Lys Val Cys Ser Gly Asn Thr Gln Val Ser
1 5 10 15

Ile Lys Cys Leu Pro Val Val Ser Glu Lys Phe Val Met Lys Tyr Phe
20 25 30

Gly Asn Arg Cys Ile Val Ser Val Gly Gly Ala Asp Glu Phe
35 40 45

<210> 154
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 154
 Met Thr His Ser Glu Leu Leu Leu Val Ile Thr Ile Asn His Lys Met
 1 5 10 15
 Pro Gln Gly Pro Arg Val Thr Asn Trp Glu Pro Pro Pro Leu Thr Arg
 20 25 30
 Ile Thr

<210> 155
 <211> 99
 <212> PRT
 <213> Homo sapiens
 <400> 155
 Met Asp Ser Phe Leu Leu Leu Arg Gln Arg Glu Gly Gly Lys Arg Asn
 1 5 10 15
 Phe Lys Arg Asn Leu Gln Thr Cys Cys Ala Val Gly Pro Thr Gly Ile
 20 25 30
 His Gly Gly Glu Thr Asn Ser Ile Met Leu Leu Gln Ile Leu Leu Lys
 35 40 45
 Lys Gly Phe Asn Cys Leu Thr Lys Tyr Ser Ser Phe Phe His Leu Leu
 50 55 60
 Thr Leu Gln Pro Asn Gln Val Pro His Thr Thr Gly Arg Cys Arg Glu
 65 70 75 80
 Ile Pro Gln Pro Glu Lys Ile Ile His Ala Gly Gln Arg Gln Lys Phe
 85 90 95
 Thr Pro Gly

<210> 156
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 156

Met Gln Phe Leu Leu Cys Leu Ser Leu Leu Asp Phe Phe Ser Ser Thr
1 5 10 15

Tyr Lys His Ala Val Met Ser Pro Asn Gln Lys Lys Cys Lys Asn Pro
20 25 30

Phe Ser Pro Met Leu Thr His His Pro Ala Val Val Leu Phe Leu Pro
35 40 45

Phe Thr Leu Leu Tyr Tyr Ser
50 55

<210> 157

<211> 59

<212> PRT

<213> Homo sapiens

<400> 157

Met Leu Gln Val Asp Val Cys Thr Leu Met Val Arg Thr Trp Ser Ser
1 5 10 15

Trp Pro Cys Trp Val Phe Ala Lys Glu Thr Val Leu Cys Ser Trp Gly
20 25 30

Arg Phe His His Leu Ile Arg Ala Val Val Pro Thr Trp Cys Ser Leu
35 40 45

Asp His Leu Tyr Lys Met Phe Ile Gly Gln Gly
50 55

<210> 158

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (41)

<220>

<221> UNSURE

<222> (57)

<400> 158

Met Thr Lys Arg Met Glu Lys Cys Leu Asn Ile Tyr Lys Arg Leu Asp
1 5 10 15

Val Tyr Arg Gln Ile Val Ser Lys Gly His Arg Ile Val Arg Asn Ser
20 25 30

Val Ile Leu Phe Cys Val Ile Asn Xaa Pro Phe Leu Tyr Pro Phe Thr
35 40 45

Leu Ile Ile Asp Ile His His Phe Xaa Val Ile Ile Gln Leu
50 55 60

<210> 159

<211> 47

<212> PRT

<213> Homo sapiens

<400> 159

His Leu Asn Arg Phe Ala Asn Ser Val Lys Val Phe Thr Arg Arg His
1 5 10 15

Ala Phe Val Lys Lys Phe Phe Arg Gly Ser Ala Cys Asn Cys Ala Glu
20 25 30

Ser Ala Leu Leu Ser Ser Gln Leu Ala His Cys Val Gly Arg Trp
35 40 45

<210> 160

<211> 43

<212> PRT

<213> Homo sapiens

<400> 160

Met Gln Glu Ala Glu Gly Arg Leu Asn Lys Pro Gln Gly Gly Arg Val
1 5 10 15

Gly Ala Glu Arg Val Gly Asn Ile Phe Phe Leu Leu Leu Asn Ser Arg
20 25 30

Lys Ala Lys Thr Gln Ser Lys Leu Phe Leu Ser
35 40

<210> 161

<211> 62

<212> PRT

<213> Homo sapiens

<400> 161

Met Phe Gly Ile Leu Glu Lys Ser Ser Lys Tyr Val His Leu Glu Gly
1 5 10 15

Ser Leu Lys His Pro Val Ile Lys Leu Val Ser Ile Ser Val Val Lys
20 25 30

Asp Glu Tyr Ser Leu Ile Asn Lys Arg Asn Lys Tyr Leu Asn Ser Leu
35 40 45

Thr Ser Ile Leu Asn Arg Phe Cys Gly Gln Met Arg Leu Pro
50 55 60

<210> 162

<211> 78

<212> PRT

<213> Homo sapiens

<400> 162

Met Thr Pro Ala Leu Ala Ala Trp His Val Leu Ile His Pro Asn Val
1 5 10 15

Cys Phe Leu Ala Pro Ala Asp Ser Leu Glu Gly Ser Ile Lys Glu Asp
20 25 30

Trp Val Asn Met Asp Leu Glu Asn Ala His Leu Gln Arg Glu Asn Gly
35 40 45

Gly Trp Ala Ala Phe Pro Ser Pro Ala Pro Val Pro Gly Ile Trp Pro
50 55 60

Arg Ser Ala Ser Val Cys Phe Gly Ala Lys Leu Gln Ala Pro
65 70 75

<210> 163

<211> 51

<212> PRT

<213> Homo sapiens

<400> 163

Met Ser Ser Trp Ile Pro Phe Ile Ile Thr Pro Leu Phe Ser Gly Ile
1 5 10 15

Arg Leu Glu Ala Trp Cys Gln Phe Tyr Ser Ser Leu Tyr Pro Phe Ile

20

25

30

His Phe Leu Ser Ile Leu Phe Pro Lys Tyr Phe Phe Ser Ala Pro Ser
35 40 45

Pro Ala Ala
50

<210> 164
<211> 27
<212> PRT
<213> Homo sapiens

<400> 164
Met Gly Ile Ile Pro Lys Cys Met Phe Leu Leu Gln Ser Arg Leu Met
1 5 10 15

Gly Val Ile Thr Asn Thr Ser Leu Leu Leu His
20 25

<210> 165
<211> 52
<212> PRT
<213> Homo sapiens

<400> 165
Met Lys Val Leu Lys Tyr His Asn Glu Ala Cys Gly Phe Tyr Ser Val
1 5 10 15

Val Trp Met Leu Ser Ser Ser Ile Pro Trp Met Pro Thr Gly Met His
20 25 30

Cys Leu Ile Leu Glu Phe Lys Arg Trp Pro Gln Thr Val Arg Leu Ser
35 40 45

Met Trp Pro His
50

<210> 166
<211> 47
<212> PRT
<213> Homo sapiens

<400> 166
Met Gly Arg Lys Ser Thr Asn Lys Thr Ala Cys Thr His Ile Asn Thr

1 5 10 15
 Tyr Val Ser Thr Asn Asp Lys Leu Tyr Leu Tyr Arg Ala Trp Glu Gly
 20 25 30

Ser Tyr Ile Thr Leu His Val Ser His Pro Pro His Thr Ser Arg
 35 40 45

<210> 167
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 167
 Met Cys Trp Gly Tyr Phe Ser Ile Ser Lys Lys Phe Pro Asn Leu Thr
 1 5 10 15

Ser Val Leu Met Asn Leu Gly Thr Asp Leu Ala Val Arg Pro Thr Ser
 20 25 30

Ile Phe Pro Thr Asp Ser Ile Leu Leu Glu
 35 40

<210> 168
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 168
 Met Asn Lys Ile Lys Gly Lys Ser Val Leu Phe Tyr Met Pro Glu Thr
 1 5 10 15

Ser Arg Ile Phe Arg Lys Val Gln Phe Lys Glu Asn Gln Ala Ala Leu
 20 25 30

Asp Ser Thr Asn Lys Asn Val Ser Leu Ser Glu Glu Leu Val Asn Gln
 35 40 45

Gly Thr Gln Ser Ala Phe Ser
 50 55

<210> 169
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 169

Met Met His Met Gln Leu Ile Ser Glu Phe Ser Cys Leu Cys Cys Phe
1 5 10 15

Phe Phe Leu Gly Ile Tyr Ile Lys
20

<210> 170

<211> 68

<212> PRT

<213> Homo sapiens

<400> 170

Met Ile His Leu Ser Glu Val Ser Gly His Leu Lys Glu Arg Lys Gly
1 5 10 15

Lys Ala Ser Cys Gln Lys Gln Lys His Val Leu Tyr Lys Arg Phe Lys
20 25 30

Asn Gln Asn Gly Ile Arg Leu Ser Asn Cys Lys Arg Gln Ser Ser Ala
35 40 45

Phe Lys Ile Leu Arg Lys Asn Asn Val Tyr Ile Lys Ile Phe Ile Ile
50 55 60

Ile Phe Asn Phe
65

<210> 171

<211> 100

<212> PRT

<213> Homo sapiens

<400> 171

Ser Phe Ala Phe Phe Ser Leu Arg Gln Ser Leu Thr Leu Ser Pro
1 5 10 15

Arg Leu Glu Cys Ser Gly Thr Ile Ser Ala His Cys Asn Leu Cys Leu
20 25 30

Leu Gly Ser Ser Asn Ser Ser Ala Ser Ala Ser Gln Val Ala Gly Ile
35 40 45

Thr Gly Thr His His His Ala Gln Val Ile Phe Ile Phe Phe Ile Glu
50 55 60

Met Gly Phe Arg His Ile Gly Gln Ala Gly Leu Lys Leu Leu Thr Ser
65 70 75 80

Gly Asp Pro Pro Ala Ser Ala Ser Glu Ser Ala Gly Ile Thr Gly Val
85 90 95

Arg His His Thr
100

<210> 172
<211> 58
<212> PRT
<213> Homo sapiens

<400> 172
Met Glu Cys Leu Ser Ile Asn Leu Thr Lys Asn Val Ser Tyr Leu Tyr
1 5 10 15

Thr Gly Pro Leu Asn Thr Ser Glu Thr Lys Leu Lys Ser Tyr Leu Ile
20 25 30

Gly Asn Gln Phe Pro Pro Arg Phe Ile Tyr Arg Val Ser Glu Ile Pro
35 40 45

Ile Lys Ile Ser Ala Arg Ser Leu Arg Asn
50 55

<210> 173
<211> 47
<212> PRT
<213> Homo sapiens

<400> 173
Met Asp Lys Glu Glu Ser Ala Val Leu Val Gly Gly Ser Ile Leu Pro
1 5 10 15

Asp Lys Leu Phe Leu Val Gly Phe Thr Asp Thr Ser Pro Asp Leu Leu
20 25 30

Pro Ala Ala Thr Val Cys Phe Tyr Asp Ala Cys His His Asp Ile
35 40 45

<210> 174
<211> 106

<212> PRT
<213> Homo sapiens

<400> 174

Met Thr His Val Gln Leu His Ala Leu Asp Leu Leu Leu Lys Asp Glu
1 5 10 15

His Lys Ser Glu Ile Ser Thr Pro Trp Gln Pro Tyr Tyr Gln Leu Leu
20 25 30

Ile Cys Ser Pro His Val Ser Thr Pro Phe Leu Ala Thr Ser Phe Cys
35 40 45

Pro Ser His Ile Asn Thr Cys Gly Gln Trp Leu Thr Met Leu Lys Leu
50 55 60

Lys Leu Tyr Pro Asp Glu Ile Leu Lys Arg Asn His Leu Cys Ser Ser
65 70 75 80

Val Leu Thr Gln Glu Ser Gln His Val Phe Leu Phe Gln Glu Thr Ile
85 90 95

Ile Ile Cys Thr Asn Ile Tyr Pro Asp Asn
100 105

<210> 175
<211> 35
<212> PRT
<213> Homo sapiens

<400> 175

Met Ser Met Leu Arg Lys Gly Leu Lys Ser Phe Phe Ser Val Cys Val
1 5 10 15

Leu Pro Ser Glu Pro Asn Ile Gly Ile Ser Ala Ser Lys Ile Pro Gln
20 25 30

Gly Gln Glu
35

<210> 176
<211> 54
<212> PRT
<213> Homo sapiens

<400> 176

Met Ser Ser Ser Pro Leu Val Ser Ala Lys Phe Ser Phe Leu Phe His
 1 5 10 15

Glu Gly Arg Ala Pro Ser Leu Phe His Pro Leu Met Thr Ser Gln Pro
 20 25 30

Leu Glu Phe Cys Leu Met Met Asp Phe Ser Glu Ile Cys Leu Cys Asn
 35 40 45

Glu Asp Lys Asp Ser Gly
 50

<210> 177

<211> 20

<212> PRT

<213> Homo sapiens

<400> 177

Met Arg Pro Leu Lys Met Ile Arg Thr Ala Lys Lys Leu Phe Val Tyr
 1 5 10 15

Leu Gly Ser Tyr
 20

<210> 178

<211> 66

<212> PRT

<213> Homo sapiens

<400> 178

Met Met Tyr Tyr Pro Asp Asp Leu Trp Asn Leu Leu Arg Asn Arg Asp
 1 5 10 15

Cys Val Ala Phe Leu Ile Met Gly Thr Gly Pro Ser Leu Leu Arg Leu
 20 25 30

Pro Met Cys Val Gly Thr Glu Leu Leu Trp His Ser Ser Ser Arg Leu
 35 40 45

Met Glu Leu Ser Ser Ser Glu Ala Ser Trp Val Val His Ala Asn Leu
 50 55 60

Val Leu
 65

<210> 179
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 179
 Met Cys Val Ile Tyr Gln Arg Gly Ile Cys Asp Glu Lys Lys Asn Leu
 1 5 10 15

 Lys Cys Pro Gln Met Phe Gln Leu Ser Glu Thr Glu Lys Thr Leu Thr
 20 25 30

 Ser Val Phe Arg Ile Ile Val Ser Asn Ile Leu Lys Ile Asp Val Ser
 35 40 45

 Ser Val Met Ile Phe Leu Arg Leu His Gln Arg Thr Ser Leu Asn Leu
 50 55 60

 Ser Val Ile Gln Asn Gln
 65 70

<210> 180
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 180
 Met Asn Pro Val Cys Trp Val Gly Phe Gly Glu Val Asn Ile Glu His
 1 5 10 15

 Met Glu Phe Lys Tyr Ile Glu Met Asp Thr Val Ile Glu Met
 20 25 30

<210> 181
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 181
 Met His Ala Cys Gly Ser Leu Arg Leu Asp Lys Asp Pro Thr Thr Leu
 1 5 10 15

 Leu Cys Val Asn Thr Arg Cys Thr Arg Ser His Leu Pro Gly Ala Gly
 20 25 30

 Gly Trp Trp Arg Lys Val Lys Ser Gln Gln Thr Val His Arg Thr Tyr

Ser Ala Thr Gly Lys Lys Ser
50 55

<210> 182
<211> 16
<212> PRT
<213> Homo sapiens

<400> 182
Met Pro Ala Leu Arg Glu Ala Phe Pro Gln Ala Pro Leu Ala Leu Ala
1 5 10 15

<210> 183
<211> 48
<212> PRT
<213> Homo sapiens

<400> 183
Met Thr Phe Gln Lys Leu Met Ile Leu His Ile His Asp Gln Met Phe
1 5 10 15

Ser Leu Met Glu Ala Ser Asp Val Cys Ser His Gln Ile Arg Phe Lys
20 25 30

Met Ser Val Ser Ser Lys Ser Ser Lys Thr Ser Pro Ser His Gln Lys
35 40 45

<210> 184
<211> 55
<212> PRT
<213> Homo sapiens

<400> 184
Met Ser Val Leu Lys Arg Phe Leu Lys Pro Ser Leu Ser Ile Ala Lys
1 5 10 15

Thr Cys Tyr Val His Tyr Pro Pro Asn Ser Tyr Leu Lys Thr Thr Pro
20 25 30

Lys Met Leu Tyr Phe Val Phe Lys Val Arg Glu Glu Asn Arg Gly Glu

Val Phe Leu Cys Ser Phe Pro
50 55

<210> 185
<211> 14
<212> PRT
<213> Homo sapiens

<400> 185
Met Trp Leu Arg Asp Leu Asn Tyr Lys Ile Ala Arg Leu Asp
1 5 10

<210> 186
<211> 42
<212> PRT
<213> Homo sapiens

<400> 186
Met Met Phe Phe Tyr Ile Phe Cys Ser Met Gly Leu Leu Ile Pro Phe
1 5 10 15

Ser Thr Leu Lys Met Leu Leu Ile Val Phe Pro Leu Ser Leu Phe Pro
20 25 30

Lys Arg Asn Leu Leu Ser Phe Leu Ser Leu
35 40

<210> 187
<211> 100
<212> PRT
<213> Homo sapiens

<400> 187
Leu Phe Phe Phe Leu Arg Trp Ser Leu Ala Leu Val Thr Gln Ala Gly
1 5 10 15

Val Gln Val Val Asp Ile Gly Ser Leu Gln Pro Leu Pro Pro Gly Phe
20 25 30

Lys Gln Phe Ser Cys Pro Ser Leu Leu Ser Ser Trp Asp Tyr Arg His
35 40 45

Gly Pro Pro Arg Pro Ala Asn Phe Phe Val Phe Leu Val Glu Met Gly

50

55

60

Phe His His Val Gly Gln Ala Gly Pro Glu Leu Leu Thr Ser Ser Asp
65 70 75 80

Pro Pro Ala Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His
85 90 95

Leu Thr Trp Pro
100

<210> 188

<211> 106

<212> PRT

<213> Homo sapiens

<400> 188

Met Ser Cys Leu Trp Pro Ser Leu Asp Leu Pro Ser Leu Ser His Ser
1 5 10 15

Lys Gln Ser Ser Ser Gln Ala Glu Gly Gln Val Thr Ser His Thr Arg
20 25 30

Gln Arg Phe Pro Asp Gly Ala His Leu His Pro Ser Leu Thr Leu Val
35 40 45

Leu Ser Gln Asp Ala Pro Leu Arg Leu Ala Pro Pro Thr Leu Cys Leu
50 55 60

Leu Cys Tyr Trp Ala Ser Leu Pro Ser Pro Arg Thr Pro Glu Leu Leu
65 70 75 80

Asn Ala Gly Gln Lys Ser Ile Pro Asp Leu Gln Gln Arg His Phe Asp
85 90 95

Ile Lys Glu Met Ala Leu Asp Phe Cys Leu
100 105

<210> 189

<211> 46

<212> PRT

<213> Homo sapiens

<400> 189

Met Val Ile Ser Arg Ile Ser Ile Leu Arg Lys Met Thr Lys Phe His
1 5 10 15

Lys Phe Cys Ser Gln Leu Thr Glu Pro Gly Arg Arg Thr Gln Pro Lys
20 25 30

Glu Asn Pro Trp Ser Leu Tyr Asp Thr Asp Trp Leu Glu Lys
35 40 45

<210> 190
<211> 46
<212> PRT
<213> Homo sapiens

<400> 190
Met Ser Arg Val Arg Ala Glu Lys Pro Gly Arg Val Ala Lys Leu Ala
1 5 10 15

Ala Cys Arg Pro Leu Pro Arg Leu Gln Met Ser Gly Ser Ile Pro Leu
20 25 30

His Lys Cys Lys Glu Lys Ala Ser Met Pro Pro Leu Trp Ser
35 40 45

<210> 191
<211> 50
<212> PRT
<213> Homo sapiens

<400> 191
Met Arg Pro Ala Arg Leu Gly Pro Arg Cys Ser Asp Leu Asp Phe Gly
1 5 10 15

Leu Val Leu Ser Ser Trp Leu Arg Leu Ala Arg Cys Pro Leu Glu Ser
20 25 30

Ser Phe Gly Phe Ala Phe Phe Val Cys Leu Phe Ser Pro Asn Phe Cys
35 40 45

Gln Thr
50

<210> 192
<211> 76
<212> PRT
<213> Homo sapiens

<400> 192
 Met Glu Gly Thr Val Gly Gln Ala Lys Met Val Glu Lys Trp Met Arg
 1 5 10 15
 Pro Thr Leu Leu Met Ser Leu Arg Gly Leu Gly Glu Arg Ser Asn Glu
 20 25 30
 Pro His Val Ser Pro Glu Ser Ser Ala Ala Pro Lys Ala Gly Pro Ser
 35 40 45
 Leu Glu Asp Cys Glu Arg Glu Asp Gly Ser Ile Arg Thr Gly Trp Asp
 50 55 60
 Thr Ala Pro Thr Lys Glu Ser Pro Thr Ser Cys Ala
 65 70 75

<210> 193
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 193
 Arg Thr Val Cys Thr Lys Val Ser Cys Pro Val Gln Leu Pro Ala Asp
 1 5 10 15
 Trp Thr Cys Lys Val Gln Pro Val Trp Leu Glu Phe Pro Cys Leu Pro
 20 25 30
 Ile Ser Cys Arg Leu Arg Val Ser Ser Asp Thr Ser Pro Asp Ser Ala
 35 40 45
 Thr Trp Gly Ser Trp Lys
 50

<210> 194
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 194
 Met Glu Pro Arg Ile Pro Val Lys Thr Phe Ser Phe Asp Lys Arg Ile
 1 5 10 15
 Leu Ile Arg Ile Leu Tyr Gln Ile Glu Gln Lys
 20 25

<210> 195
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 195
 Met Leu Gln His Leu Arg Leu Thr Ile Trp Gly Glu Cys Val Trp Val
 1 5 10 15

Phe

<210> 196
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 196
 Met Arg Asn Val Ser Leu Ile Ser Cys Glu Asp Ala Asp Phe Thr Glu
 1 5 10 15

Ala Leu Cys Asn Ile Trp Phe Val His Gln Thr Met Leu Ile Asp Cys
 20 25 30

Arg Ser His Leu Leu Pro Arg Trp Leu Thr Lys Thr Val Gly Ser Leu
 35 40 45

Leu Lys Pro
 50

<210> 197
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 197
 Met Ser His Gly Gln Val Leu Gly Asp Val Ala Gly Lys Val Gly His
 1 5 10 15

Ala Leu Gly Thr Glu Asp Gln Thr Phe Ala Val Glu Val Leu Lys Glu
 20 25 30

Thr Thr Pro Phe Phe Arg Ala Ser Ser Gly Pro Thr Gly Asp Pro Trp
 35 40 45

Cys Pro Asp His Lys Ile Gln Ser Lys Pro Val Ser Leu Ser
50 55 60

<210> 198
<211> 400
<212> PRT
<213> Homo sapiens

<400> 198
Met Leu Leu Leu Val Thr Ser Leu Leu Leu Cys Glu Leu Pro His Pro
1 5 10 15

Ala Phe Leu Leu Ile Pro Glu Lys Ser Asp Leu Arg Thr Val Ala Pro
20 25 30

Ala Ser Ser Leu Asn Val Arg Phe Asp Ser Arg Thr Met Asn Leu Ser
35 40 45

Trp Asp Cys Gln Glu Asn Thr Thr Phe Ser Lys Cys Phe Leu Thr Asp
50 55 60

Lys Lys Asn Arg Val Val Glu Pro Arg Leu Ser Asn Asn Glu Cys Ser
65 70 75 80

Cys Thr Phe Arg Glu Ile Cys Leu His Glu Gly Val Thr Phe Glu Val
85 90 95

His Val Asn Thr Ser Gln Arg Gly Phe Gln Gln Lys Leu Leu Tyr Pro
100 105 110

Asn Ser Gly Arg Glu Gly Thr Ala Ala Gln Asn Phe Ser Cys Phe Ile
115 120 125

Tyr Asn Ala Asp Leu Met Asn Cys Thr Trp Ala Arg Gly Pro Thr Ala
130 135 140

Pro Arg Asp Val Gln Tyr Phe Leu Tyr Ile Arg Asn Ser Lys Arg Arg
145 150 155 160

Arg Glu Ile Arg Cys Pro Tyr Tyr Ile Gln Asp Ser Gly Thr His Val
165 170 175

Gly Cys His Leu Asp Asn Leu Ser Gly Leu Thr Ser Arg Asn Tyr Phe
180 185 190

Leu Val Asn Gly Thr Ser Arg Glu Ile Gly Ile Gln Phe Phe Asp Ser
195 200 205

Leu Leu Asp Thr Lys Lys Ile Glu Arg Phe Asn Pro Pro Ser Asn Val
 210 215 220
 Thr Val Arg Cys Asn Thr Thr His Cys Leu Val Arg Trp Lys Gln Pro
 225 230 235 240
 Arg Thr Tyr Gln Lys Leu Ser Tyr Leu Asp Phe Gln Tyr Gln Leu Asp
 245 250 255
 Val His Arg Lys Asn Thr Gln Pro Gly Thr Glu Asn Leu Leu Ile Asn
 260 265 270
 Val Ser Gly Asp Leu Glu Asn Arg Tyr Asn Phe Pro Ser Ser Glu Pro
 275 280 285
 Arg Ala Lys His Ser Val Lys Ile Arg Ala Ala Asp Val Arg Ile Leu
 290 295 300
 Asn Trp Ser Ser Trp Ser Glu Ala Ile Glu Phe Gly Ser Asp Asp Gly
 305 310 315 320
 Asn Leu Gly Ser Val Tyr Ile Tyr Val Leu Leu Ile Val Gly Thr Leu
 325 330 335
 Val Cys Gly Ile Val Leu Gly Phe Leu Phe Lys Arg Phe Leu Arg Ile
 340 345 350
 Gln Arg Leu Phe Pro Pro Val Pro Gln Ile Lys Asp Lys Leu Asn Asp
 355 360 365
 Asn His Glu Val Glu Asp Glu Ile Ile Trp Glu Glu Phe Thr Pro Glu
 370 375 380
 Glu Gly Lys Gly Tyr Arg Glu Glu Val Leu Thr Val Lys Glu Ile Thr
 385 390 395 400

<210> 199
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 199
 Met Asp Arg Met Glu Lys Arg Gln Thr Asp

1

5

10

<210> 200
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 200
 Met Cys Tyr Ala Thr Leu His Gln Ile Asn Phe Leu Gln Thr Val Leu
 1 5 10 15

Val Pro Gly Leu
 20

<210> 201
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 201
 Met Cys Leu Cys Cys Trp Leu Tyr Trp Glu Glu Tyr Gly Pro Leu Ser
 1 5 10 15

Leu Thr Gln Glu Phe His Val Phe Cys Gln Asp Thr Leu His Gly
 20 25 30

<210> 202
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 202
 Met Asn His Ser Leu Ser Ala Phe Gln Arg Ala Leu Gln Val Leu Ile
 1 5 10 15

Phe Lys Met Ser Val Tyr Ala Ser Gly Pro Arg Leu Glu Lys Lys Val
 20 25 30

Gly Asn Lys Leu Glu Gly Gly Arg Lys Gln Glu Arg Asn Val Thr Tyr
 35 40 45

Met Ala Asp Glu Gly Phe
 50

<210> 203
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 203
 Met Ile Lys Ala Tyr His Pro Tyr Phe Glu Asn Phe Asn His Arg Ala
 1 5 10 15
 Gln Tyr Val Ser Asn Lys Leu Lys Lys Tyr Ser Phe Gln Leu His Phe
 20 25 30
 Asp Gly His
 35

<210> 204
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 204
 Met Lys Met Val Asn Arg His Met Lys Trp Lys Ser Ser Ala Leu Ser
 1 5 10 15
 Asp Leu Val Cys Ile Ser Thr Glu Ile Gln Ala Gly Leu Thr Arg His
 20 25 30
 Thr Ser His Asn Phe Gln Cys His Cys Thr Ile Ile Leu Thr Val Val
 35 40 45
 Ser Phe Phe Gln Ser Thr Glu Lys Gln Ala Asp Lys Pro Arg His Leu
 50 55 60
 Asn Val Thr Trp Leu Met Thr Leu Ile Ser Thr Leu
 65 70 75

<210> 205
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 205
 Met Glu Gly Gln Asp Ser Leu Arg Asp Val Gly Ala Leu Ser His Leu
 1 5 10 15
 Ala His Thr Asp Arg Ser Trp Leu Gly Arg Ala Gly Val Ser Ala Trp

20 25 30
 Arg Pro Ser Ala Ala Gly Asp Pro Gly Phe His Glu Val Gly Gly Val
 35 40 45
 His Ala Gly Thr Ser Gln Leu Ala Gly Pro Gly Gly His Pro Gly Gly
 50 55 60
 Ala Gly Ala Trp Gly His Glu Phe Thr Lys Val Ala Gln Gly Gln Glu
 65 70 75 80
 Glu Thr Val Val Ala Glu Gly Pro Leu Val Glu Ala Trp Ala
 85 90

<210> 206

<211> 53

<212> PRT

<213> Homo sapiens

<400> 206

Met Pro Gln Asp Gln Asp Pro Pro Arg Glu Glu His Ala Ala Leu Arg
 1 5 10 15

Val Leu Phe Pro Arg Val Pro Leu Ala Val Pro His Gln Leu Gly Gly
 20 25 30

Glu Leu Glu Arg Ala Asp Arg Arg Thr Gly Phe Ser Ala Cys Ala Asn
 35 40 45

Ile Leu Thr Cys Pro
 50

<210> 207

<211> 75

<212> PRT

<213> Homo sapiens

<400> 207

Trp Ser Thr Pro Pro Phe Asp Pro Arg Phe Pro Ser Gln Asn Gln Ile
 1 5 10 15

Arg Asn Cys Tyr Gln Asn Phe Leu Asp Tyr His Arg Cys Leu Lys Thr
 20 25 30

Arg Thr Arg Arg Gly Lys Ser Thr Gln Pro Cys Glu Tyr Tyr Ser Cys
 35 40 45

Val Tyr His Ser Leu Cys Pro Ile Ser Trp Val Glu Ser Trp Asn Glu
50 55 60

Gln Ile Lys Asn Gly Ile Phe Ala Gly Lys Ile
65 70 75

<210> 208

<211> 44

<212> PRT

<213> Homo sapiens

<400> 208

Met Arg Val Leu Arg Lys Glu Ser Pro Ser Arg His Val Leu Lys Asn
1 5 10 15

Met Cys Leu Ile Arg Asn Pro Arg Glu Gly Thr Ala Ala Asn Asn Glu
20 25 30

Met Glu Ser Ala Thr Gly Glu Glu Lys Gly Asn Arg
35 40

<210> 209

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (80)

<223> a, c, g or t

<400> 209

Met His Arg Lys Lys Lys Leu Glu Ser Phe Leu Leu Leu Ile Pro Pro
1 5 10 15

Pro Tyr Leu Pro Leu Thr Lys Met Trp Gly Glu Pro Arg Phe Glu Gly
20 25 30

Ser Thr Gly Pro Cys Pro Gln Asp Ser Met Glu Gln Pro Val Thr Lys
35 40 45

Gln Gly Ile Ser Leu Lys Ser Cys Leu Pro Lys Lys Ile Lys Leu Pro
50 55 60

Arg Leu Ala Leu His Pro Ser Pro Pro Arg Ser Phe Pro Leu Lys Xaa

65

70

75

80

Lys Lys Leu

<210> 210

<211> 40

<212> PRT

<213> Homo sapiens

<400> 210

Met	Thr	Arg	Phe	Ser	Gln	Ala	Ser	Ser	Ser	Lys	Asp	Lys	Thr	Pro	Pro
1				5					10					15	

Leu	Pro	Ser	Met	Val	Gln	Ala	Thr	Val	Leu	Val	Lys	Lys	Tyr	Ile	Phe
			20					25					30		

Thr	Lys	Lys	Lys	Ser	Tyr	Val	Leu
	35					40	

<210> 211

<211> 87

<212> PRT

<213> Homo sapiens

<400> 211

Met	Pro	Arg	Pro	Thr	Glu	Gly	Glu	Gly	Ser	Thr	Glu	Asp	Arg	Asp	Pro
1				5					10					15	

Ile	Gly	Ile	Gln	Ser	Gln	Thr	Arg	Ala	Glu	Pro	Thr	Val	Glu	Gln	Leu
			20					25					30		

Met	Ser	Gly	Ala	Lys	Asp	Thr	Ser	Trp	Asn	Pro	Pro	Asp	Gly	Ser	Ser
		35					40					45			

Asn	Pro	Lys	Arg	Ala	Gly	Leu	Gln	Val	Gly	Leu	Asn	Trp	Arg	Asp	Pro
	50					55					60				

Gln	Glu	Ser	Gly	Arg	Arg	Asn	Thr	Arg	Ala	Phe	Leu	Glu	Glu	Gly	Thr
65					70					75					80

Phe	Ile	Leu	Asp	Ser	Asn	Gln
				85		

<210> 212

30310

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<210> 213
<211> 88
<212> PRT
<213> Homo sapiens

<400> 213
Met Ser Leu Leu Asp Ala Ser Ser Leu Lys Pro Tyr Asp Ser Phe Leu
  1             5             10             15

Leu Ala Val Leu Phe Leu Thr Arg Asp Asn Lys Gly Phe Ala Ser Gln
      20             25             30

Val Cys Met Ala Lys Lys Val Ser Thr Ser Val Asn Gly Ser Phe Leu
      35             40             45

Met Thr Ser Gln Gln Pro Leu Val Lys Asp Val Ile Glu Ile Val Gln
  50             55             60

Arg Leu Gly Ser Val Cys Phe Val Leu Leu Leu Lys Ser Phe His Gly
  65             70             75             80

Ser Lys Leu Phe Leu Ser Ile Val
      85

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<400> 214
Met Val Ile Arg Glu Leu Leu Gly Gly Gln Lys Tyr Pro Asn Pro Val
1 5 10 15

Gln Gly Arg Asp Pro Trp Thr Val Thr Val Leu Ser Ala Phe Gly Arg
20 25 30

Glu Gly Asp Ser Glu Ala Gln Thr Arg Ile
35 40

<210> 215
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (46)

<400> 215
Met Pro Asn Cys Ser Val Glu Leu Arg Gly Tyr Tyr Tyr Asn Phe Val
1 5 10 15

His Tyr Tyr Lys Tyr Phe Ile Leu Val Val Tyr Ser Thr Ala Asp Ser
20 25 30

Asn Gln Lys Thr Lys Ile Gln Lys Tyr Tyr Ile Leu Glu Xaa Ile Ile
35 40 45

Met

<210> 216
<211> 37
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (6)

<220>
<221> UNSURE
<222> (8)

<400> 216
Met Glu Met Leu Glu Xaa Lys Xaa Thr Ile Ile Asp Ile Val Ser Leu
1 5 10 15

Leu Ala Leu Ser Gly Asp Leu Thr Gln Leu Arg Lys Ser Leu Val Thr
 20 25 30

Leu Lys Ile Cys Arg
 35

<210> 217

<211> 72

<212> PRT

<213> Homo sapiens

<400> 217

Met Gly Ser Tyr Gly Leu Leu Phe Lys Phe Tyr Gly Ala Ile Phe Thr
 1 5 10 15

Ser Val Ala Gln Gly Trp Ser Val Leu His Leu Arg Lys Val Ser Leu
 20 25 30

Gly Lys Cys Pro Cys His Pro Ser His Ser Arg Gln Ala Ala Ser Ser
 35 40 45

Ala Phe Ser Ser Ser Ser Ser His Ala Trp Ser Ser Pro Phe Val Ile
 50 55 60

Phe Ser Ser Leu Thr Pro Ser Leu
 65 70

<210> 218

<211> 49

<212> PRT

<213> Homo sapiens

<400> 218

Met Gly Ser Phe Ser Pro Leu Thr Tyr His Leu Gly His Trp Asn Met
 1 5 10 15

Ala Ala Cys Gly Ser Val Cys Glu Gly Pro Gly Asp Gly Gln Gly Gly
 20 25 30

Ser Ala Leu Phe Cys Phe Tyr Gln His Cys Ser Met Asn Val Phe Leu
 35 40 45

Thr

<210> 219
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 219
 Met Leu Thr Arg His His Pro Leu Asn Val Leu Leu His Arg Leu Cys
 1 5 10 15
 Leu Asn Trp Leu Glu Glu Asn Asn Tyr Pro Arg Asn Thr Asp Tyr Leu
 20 25 30
 Ile Phe

<210> 220
 <211> 34
 <212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (17)
 <400> 220
 Met Leu Leu Leu Pro Ala Thr Phe Leu Pro Thr Ser His Ala Arg Pro
 1 5 10 15
 Xaa Gln Pro His Cys His Thr Thr Cys Leu Ile Thr Ser His Val Leu
 20 25 30
 Thr His

<210> 221
 <211> 111
 <212> PRT
 <213> Homo sapiens

<400> 221
 Met Gly Pro Ser Ser Cys Leu Leu Leu Ile Leu Ile Pro Leu Leu Gln
 1 5 10 15
 Leu Ile Asn Leu Gly Ser Thr Gln Cys Ser Leu Asp Ser Val Met Asp
 20 25 30

Lys Lys Ile Lys Asp Val Leu Asn Ser Leu Glu Tyr Ser Pro Ser Pro
35 40 45

Ile Ser Lys Lys Leu Ser Cys Ala Ser Val Lys Ser Gln Gly Arg Pro
50 55 60

Ser Ser Cys Pro Ala Gly Met Ala Val Thr Gly Cys Ala Cys Gly Tyr
65 70 75 80

Gly Cys Gly Ser Trp Asp Val Gln Leu Glu Thr Thr Cys His Cys Gln
85 90 95

Cys Ser Val Val Asp Trp Thr Thr Ala Arg Cys Cys His Leu Thr
100 105 110

<210> 222

<211> 111

<212> PRT

<213> Homo sapiens

<400> 222

Met Gly Pro Ser Ser Cys Leu Leu Leu Ile Leu Ile Pro Leu Leu Gln
1 5 10 15

Leu Ile Asn Leu Gly Ser Thr Gln Cys Ser Leu Asp Ser Val Met Asp
20 25 30

Lys Lys Ile Lys Asp Val Leu Asn Ser Leu Glu Tyr Ser Pro Ser Pro
35 40 45

Ile Ser Lys Lys Leu Ser Cys Ala Ser Val Lys Ser Gln Gly Arg Pro
50 55 60

Ser Ser Cys Pro Ala Gly Met Ala Val Thr Gly Cys Ala Cys Gly Tyr
65 70 75 80

Gly Cys Gly Ser Trp Asp Val Gln Leu Glu Thr Thr Cys His Cys Gln
85 90 95

Cys Ser Val Val Asp Trp Thr Thr Ala Arg Cys Cys His Leu Thr
100 105 110

<210> 223

<211> 83

<212> PRT

<213> Homo sapiens

<400> 223

Met Asn Val Glu Ala Arg Glu Gln Cys Asp Val Gln Leu Ser Asp Leu
1 5 10 15

Thr Trp His Leu Ile Trp Leu Glu Val Pro Pro Leu Leu Ser Val Pro
20 25 30

Trp Leu Trp Ala His Gly Leu Ala Glu Pro Ser Tyr Gly Phe Arg Phe
35 40 45

Thr Cys Tyr Asn Ile Gln Arg Gln Cys Thr Ser Leu Pro Arg Lys Leu
50 55 60

Cys Ser Arg His Pro Phe Val Thr Leu Ile Ser Ile Met Asp Thr Thr
65 70 75 80

Thr Phe Tyr

<210> 224

<211> 132

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (3)

<220>

<221> UNSURE

<222> (11)

<220>

<221> UNSURE

<222> (14)

<400> 224

Met Asp Xaa Thr Arg Val His Asp Asp Glu Xaa Val Ile Xaa Gly Asp
1 5 10 15

Val Phe Val His Glu Val Thr Pro Gly Pro His Arg Trp Val Leu Val
20 25 30

Arg Pro Phe Cys Leu Glu Val Arg Ala Val Phe Leu Arg Leu Trp Tyr
35 40 45

Tyr Arg Gly Glu Lys Glu Glu Glu Leu Glu Val Arg Glu Arg Ser Cys
50 55 60

Arg Leu Gly Arg Cys Asp Gln Gly Gln Arg Asp Gly Val Gln Glu Ala
65 70 75 80

Cys Ser Ser Val Ser Cys Ser Leu Arg Gln Glu Val Ser Pro Ser Ser
85 90 95

Gln Leu Asp Met Arg Ser Leu Leu Gly Val Pro Leu Ala Glu Val Glu
100 105 110

Pro Val Ala Gln His Pro Pro Asn Glu Gly Arg Gly Arg His Leu Gly
115 120 125

Gln Cys Leu Leu
130

<210> 225

<211> 38

<212> PRT

<213> Homo sapiens

<400> 225

Met Ile Asn Asn Ser Asn His Asn Asn Ser Ser Ser Ser Lys Leu Arg
1 5 10 15

Ala Ser Tyr Val Gln Ala Phe Ser Lys His Phe Thr Cys Ile Thr Pro
20 25 30

Leu Val Ile Thr Thr Pro
35

<210> 226

<211> 58

<212> PRT

<213> Homo sapiens

<400> 226

Met Ser Thr Phe Thr Val Leu Lys Asn Thr His Gln Leu Lys Lys Asn
1 5 10 15

Thr Leu Phe Pro Phe Leu Gly His Leu Asn Leu Arg Glu Gln Leu Leu
20 25 30

Tyr Lys Asn Asp Ile Lys Ile Ile His Phe Gly Ser Met Phe Leu Thr

Val Leu Arg Gly Cys Met Val Lys Leu Lys
50 55

<210> 227
<211> 26
<212> PRT
<213> Homo sapiens

<400> 227
Met His Met His Ile Phe Leu Cys Leu Tyr Asn Leu Cys Asn Ile Cys
1 5 10 15
Glu Cys Asn Thr Phe Ser Phe Phe Leu Leu
20 25

<210> 228
<211> 47
<212> PRT
<213> Homo sapiens

<400> 228
Met Leu Asp Val Met Arg Gln Val Ala Arg Ser Trp Leu Thr Ala Met
1 5 10 15
Glu Arg Leu Leu Leu Pro Ala Ala Val Arg Phe Ser Ala Ile Trp Leu
20 25 30

Ala Gly Gln Phe Ala Met Ala Trp Leu Leu Gln Leu Ile Leu Gly
35 40 45

<210> 229
<211> 53
<212> PRT
<213> Homo sapiens

<400> 229
Met Gly Asn Ile Gly Glu Thr Leu Ser Leu Lys Lys Lys Arg Arg Ala
1 5 10 15
Gly Gly Glu Ser Val Lys Asp Pro Gly Ser Thr Asp Thr Gly Gly Gln
20 25 30

Arg Thr Arg Val Gly Val Ser Ser Asn Asp Ser Val Gly Ser Met Gly

35

40

45

Ala Val Gly Arg Glu
50

<210> 230

<211> 80

<212> PRT

<213> Homo sapiens

<400> 230

Met Val Ile Asn Ser Cys Ile Ile Pro Leu Pro Ser Gln Ala Thr Ile
1 5 10 15

Pro Glu Pro Trp Pro His Gly Ala Cys Ile Phe Arg Ile Gln Thr Pro
20 25 30

Trp Gly Ser Ser Pro Leu Leu Pro Ser Leu Ser Ser His Pro Leu Thr
35 40 45

His Leu Ser Cys Tyr Leu Ser Leu Glu Ile Pro Lys Met Met Cys Val
50 55 60

Met Glu Arg Leu Glu His Gln Leu Gln Asn His Pro Val Thr Leu Ala
65 70 75 80

<210> 231

<211> 40

<212> PRT

<213> Homo sapiens

<400> 231

Met Phe Gln Arg Phe Leu Ala Lys Val Thr Val Trp Met Val Val Pro
1 5 10 15

Leu Thr Lys Thr Ala Met Asn Ala Lys Arg Ala Ser Phe Val Gly Arg
20 25 30

His Lys Ile Ile Phe Arg Ile Cys
35 40

<210> 232

<211> 24
 <212> PRT
 <213> Homo sapiens

<400> 232
 Met Leu Leu Tyr Leu Ile Thr Arg Gly Asp Val Glu Asn Gly Cys Phe
 1 5 10 15
 Ile Phe Ser Val Val Phe Ala Leu
 20

<210> 233
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 233
 Met Pro Pro Arg Gly Leu Pro His Phe Ser Pro His Pro Thr Arg Gln
 1 5 10 15
 Phe Leu Phe Leu Phe Pro Leu His Thr Lys
 20 25

<210> 234
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 234
 Met Ser Tyr Glu Ile Leu Val Asn Thr Asp Phe Met Ser Pro Phe Leu
 1 5 10 15
 Arg Thr Leu Leu Val Cys Phe His Leu Tyr Ala Leu Ile Arg Ala Asn
 20 25 30

Asn Leu Lys Tyr Pro
 35

<210> 235
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 235
 Met Gly Lys Gly Leu Arg Leu Gly Val Ser Ile Ile Leu Val Lys Ser

1

5

10

15

Phe Phe Thr Tyr Ser Ser Lys Asp Val Asn Tyr Phe Ser Ile His Ser
20 25 30

Asn Ile Lys Ala Val Phe His Phe
35 40

<210> 236

<211> 40

<212> PRT

<213> Homo sapiens

<400> 236

Met Glu Glu Thr Gly Pro Leu Pro Ser Gly Ser Ser Leu Ser Asp Gln
1 5 10 15

Gly Glu Thr Ala Leu Ala Leu Gly Asn Ser Arg Ser Asp Gly Gly Arg
20 25 30

Gln Ser Ser Ser Ser Met Asn Ala
35 40

<210> 237

<211> 50

<212> PRT

<213> Homo sapiens

<400> 237

Met His Lys Gln Ser Met Ala Arg Ser Ile Leu Arg Ser Pro Leu Gln
1 5 10 15

Gln Ile Pro Pro Lys Gly Glu Ala Gly Arg Trp Arg Trp Ala Glu Ala
20 25 30

Ser Cys Val Leu His Thr Phe Ser Thr Ile Leu Asp Phe Leu Phe Phe
35 40 45

Phe Phe
50

<210> 238

<211> 49

<212> PRT

<213> Homo sapiens

<400> 238

Ser Ser Trp Gly Asp Ser Phe Ala Val Ser Ala Ala Trp Ala Arg Lys
1 5 10 15

Gly Ile Glu Glu Trp Ile Gly Arg Gln Arg Cys Pro Gly Gly Val Ser
20 25 30

Gly Pro Arg Gln Leu Arg Leu Ala Gly Thr Ile Gly Arg Ser Thr Arg
35 40 45

Glu

<210> 239

<211> 54

<212> PRT

<213> Homo sapiens

<400> 239

Met Leu Arg Pro Leu Thr Val Ala Ser Lys Arg Leu Leu Thr Ile Ser
1 5 10 15

Thr Leu Lys Ser Pro Leu Val Gly Leu Cys Ser Phe Ser Lys Ser Gly
20 25 30

Val Leu Arg Glu Gln Ala Leu Phe Ser Ile Ile Asn Leu Ile Asn Thr
35 40 45

Asp Trp Gln Lys Gln His
50

<210> 240

<211> 23

<212> PRT

<213> Homo sapiens

<400> 240

Met Lys Lys Lys Ser Tyr Pro Asp Lys Ile Asn Gln Cys Phe Ile Phe
1 5 10 15

Leu Glu His Gln Asn Leu Leu
20

<210> 241

<211> 59
 <212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (6) .. (7)

<220>
 <221> UNSURE
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<220>
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<220>
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<220>
 <221> UNSURE
 <222> (27) .. (31)

<220>
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 <222> (38) .. (40)

<220>
 <221> UNSURE
 <222> (43)

<220>
 <221> UNSURE
 <222> (45)

<220>
 <221> UNSURE
 <222> (47)

<400> 241
 Met Val Lys Tyr Met Xaa Xaa Leu Xaa Leu Thr Pro Xaa Phe Ser Asn
 1 5 10 15

Leu Leu Gly Thr Leu Lys Xaa Arg Lys Val Xaa Xaa Xaa Xaa Pro
 20 25 30

Arg Lys Arg Asn Phe Xaa Xaa Xaa Pro Pro Xaa Leu Xaa Lys Xaa Arg

Cys His Phe Leu His Ile Asp Leu Gln Arg Val
50 55

<210> 242
<211> 55
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (53)

<400> 242
Met Val Ser Gly Val Gln Val Ser Leu His Lys Thr Lys Ile Lys Leu
1 5 10 15

Phe Asn Thr Gly Pro Thr Thr Leu Ile Tyr Gly Ala Asn Thr Cys Cys
20 25 30

Glu Pro Trp Gly Gln Gly Leu Gly Asp Lys Val Ala Thr Ile Phe Trp
35 40 45

Gly Val Gly Gly Xaa Gly Gly
50 55

<210> 243
<211> 75
<212> PRT
<213> Homo sapiens

<400> 243
Met Val Ile Thr Cys Val Leu Tyr Asp Ile Ser Ser Leu Lys Asn Leu
1 5 10 15

Arg His Ser Pro Phe Leu Gln Val Phe Phe Cys Val Cys Trp Lys Ile
20 25 30

Met Tyr Ile Phe Gln Leu Leu Asn Ala Ser Val Cys Ile Cys Ile Ser
35 40 45

Thr Lys Ser Lys Leu Leu Ile Leu Leu Phe Lys Leu Phe Ala Ser Tyr
50 55 60

Trp Phe Ser Leu Pro Thr Leu Cys Ile Asn Ser

65

70

75

<210> 244

<211> 17

<212> PRT

<213> Homo sapiens

<400> 244

Met Ser Trp Val Pro Cys Gly Cys Asp Phe Leu Arg Glu Ile Asn Leu

1

5

10

15

Phe

<210> 245

<211> 30

<212> PRT

<213> Homo sapiens

<400> 245

Met Tyr Val Ser Pro Asp Asn Ile Ser Gly Ser Gly Asn Cys Lys Lys

1

5

10

15

Lys Ile Gly Asn Gln Asn Ser Arg Lys Val Phe Leu Glu Gly

20

25

30

<210> 246

<211> 57

<212> PRT

<213> Homo sapiens

<400> 246

Arg Val Thr Met Asn Glu Lys Asp Asn Phe Met Asn Ala Glu Asn Leu

1

5

10

15

Gly Ile Val Phe Gly Pro Thr Leu Met Arg Pro Pro Glu Asp Ser Thr

20

25

30

Leu Thr Thr Leu His Asp Met Arg Tyr Gln Lys Leu Ile Val Gln Ile

35

40

45

Leu Ile Glu Asn Glu Asp Val Leu Phe

50

55

<210> 247
 <211> 70
 <212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (38)

<400> 247
 Met Phe Ala Ser Leu Leu Ile Thr Asn Leu Leu Ser Thr Asn Glu Lys
 1 5 10 15

Tyr Ile Gln Asp Leu Pro Phe Gln Arg Leu Ser Ile Tyr Glu Thr Asn
 20 25 30

Ser Pro Phe Arg Leu Xaa Asn Phe Glu Asp Val Phe Ile Phe Leu Phe
 35 40 45

Phe Leu Asn Lys Asn Cys Phe Leu Ser Arg Leu Phe Lys Ala Thr Cys
 50 55 60

Val Lys Pro Leu Val Gln
 65 70

<210> 248
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 248
 Met Arg Arg Ala Arg Pro Pro Leu Phe Phe Leu His Ala Val Ser Ser
 1 5 10 15

Pro Gly Gln Ile Leu Thr Ser Lys Asn Ala Val Phe Pro Ser Gly Ala
 20 25 30

Gly Pro Val Met
 35

<210> 249
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 249

Met Ser Leu Ser Phe Ser Leu His Ser Phe Tyr Arg Lys Ala Ile Leu
 1 5 10 15

Gly Val Leu Gly His Phe Asp Ser Thr Ser
 20 25

<210> 250

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (6)

<400> 250

Met Ser Leu Pro Ser Xaa Arg Arg Gln Phe Ser Asp Ile Thr Cys Thr
 1 5 10 15

Glu Ile His Tyr Asn Ala Thr Met Asn Gly Gln Ser Ser Thr Glu Lys
 20 25 30

Ile Lys Gln Arg Met Ser Trp Lys Val Leu Trp
 35 40

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